CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Dam, Los Angeles, Calif., Flood Control Dist. plans $1,375,000. Total project $25,800,000.

Hotel, Detroit, Mich., R. T. Lee, having plans prepared, $2,750,000.

Hotel, Los Angeles, Calif., W. Bruce, archt., preparing plans, $2,300,000.

Club, New Orleans, La., Young Mens Gymnastic Club, having plans prepared, $2,000,000.

Art museum, Pasadena, Calif., Pasadena Art Institute, having plans prepared, $1,500,000.

Hospital, Belmont (br. Boston), Mass., Dept. Mental Diseases, having sketches made, $1,500,000.

Street improvement, Houston, Tex., City, bonds voted, total, $1,300,000.

Hospital, Indianapolis, Ind., Methodist Hospital having plans prepared $1,069,000.

Apartment and store, Indianapolis, Ind., Court Realty Co., having preliminary plans prepared, $1,000,000.

City hall, Houston, Tex., City, bonds voted, $1,000,000.

Hotel, Beaumont, Tex., Owner, care of J. C. Beck, archt., having preliminary plans prepared, $1,000,000.

Auditorium, St. Paul, Minn., Dept. Educ., having plans prepared, $1,000,000.

Store Los Angeles, Calif., Foreman & Clark, having sketches made, $1,000,000.

Theater, store and office, Darby, Pa., Green & Altman, having plans prepared, $1,000,000.

Bids Desired

Hospital, Chicago, Ill., P. T. Johnstone, archt., taking bids, $1,500,000.

Cathedral, Springfield, Ill., May 7, by J. W. McCarthy, archt., $1,000,000.

Exchange, Oklahoma City, Okla., May 15, by R. J. Benzel, mgr., $1,000,000.

Monastery, Atchison, Kansas, St. Benedict Abbey, care of A. Callisti, pastor, takes bids about May 18, $1,000,000.

Contracts Awarded

Offices, Dallas, Tex., Southwestern Bell Telephone Co., $2,500,000, structural steel to Virginia Bridge & Iron Co.

Warehouse, Pittsburgh, Pa., Joseph Horne Co., general contract to W. P. Trimble & Sons, $2,000,000.

Apartment, Chicago, Ill., 431 Oakdale Bldg., Corp., to G. Lindstrom, $1,200,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
Apr. 29	Dayton, O.	Apr. 21
Apr. 29	Boston, Mass.	Apr. 21
Apr. 29	Boston, Mass.	Apr. 14
Apr. 29	Elkhart, Ind.	Apr. 28
Apr. 30	Laurierville, Que.	Apr. 28
May 2	Clarenden, Va.	Apr. 28
	Adv. Apr. 21 and 28.	
May 3	Vancouver, B. C.	Apr. 28
May 3	St. Louis, Mo.	Apr. 7
May 3	Toronto, Ont.	Apr. 14
May 3	Lochmoor, Mich.	Apr. 28
May 3	St. Paul, Minn.	Apr. 28
May 6	Falmouth, Mass.	Apr. 28
May 10	Hamburg, N. Y.	Apr. 21
May 11	Detroit, Mich.	Apr. 21
May 11	Liberty, N. Y.	Apr. 28
	Adv. Apr. 28.	
May 11	Odgensburg, N. Y.	Apr. 28
	Adv. Apr. 28.	
May 12	Hamilton, N. Y.	Apr. 14
May 24	Saginaw, Mich.	Apr. 14
June 1	Youngstown, O.	Mar. 17

Sewers

Apr. 29	Altoona, Pa.	Apr. 14
May 2	Birmingham, Ala.	Mar. 31
May 2	Springfield, Ill.	Mar. 31
May 2	Euclid, O.	Apr. 28
May 2	Maple Heights (br. Bedford), O.	Apr. 28
May 2	Sedalia, Mo.	Apr. 28
May 3	Kalama, Wash.	Apr. 21
May 3	Cincinnati, O.	Apr. 28
May 3	Horton, Kan.	Apr. 28
May 3	St. Paul, Minn.	Apr. 28
May 4	Los Angeles, Calif.	Apr. 28
May 4	Baltimore, Md.	Apr. 28
May 4	Detroit, Mich.	Apr. 28
May 4	Concordia, Kan.	Apr. 21
May 4	Beverly, Mass.	Apr. 28
May 5	Decatur, Ill.	Apr. 21
May 5	Greenwich, Conn.	Apr. 21
	Adv. Apr. 21 and 28.	
May 6	Cherryville, N. C.	Apr. 28
May 6	Bridgeport, Conn.	Apr. 21
	Adv. Apr. 21 and 28.	
May 6	New York, N. Y.	Apr. 28
May 9	Butler, N. J.	Apr. 28
	Adv. Apr. 28.	
May 11	Dumont, N. J.	Apr. 28
	Adv. Apr. 28.	
May 17	Lakeview, Ore.	Apr. 28
May 17	Fort Lauderdale, Fla.	Apr. 21
	Adv. Apr. 21 and 28.	

Bridges

Apr. 29	Marshfield, Vt.	Apr. 28
Apr. 30	Asheville, N. C.	Apr. 28
May 2	Lawrenceburg, Ind.	Apr. 28
May 2	Pittsburgh, Pa.	Apr. 21
May 2	Jackson, Mich.	Apr. 28
May 3	Mississippi	Apr. 28
May 3	Steubenville, O.	Apr. 21
May 3	Portsmouth, O.	Apr. 21
May 3	St. Henri de Levis, Que.	Apr. 28
May 3	Iowa	Apr. 28
May 3	Wisconsin	Apr. 28
May 3	South Carolina	Apr. 28
May 4	Jean, Nev.	Apr. 21
May 5	Marietta, Wis.	Apr. 28
May 5	Allison, Ia.	Apr. 28
May 6	Dayton, O.	Apr. 21
May 12	Bridgeport, Conn.	Apr. 28
May 12	Indianapolis, Ind.	Apr. 28
May 12	Greensboro, N. C.	Apr. 28
May 12	Virginia	Apr. 28
	Adv. Apr. 28.	
May 13	Akron, O.	Apr. 28
May 16	Lansing, Mich.	Apr. 21
May 17	Auburn, N. Y.	Apr. 21
	Adv. Apr. 21 and 28.	
May 25	Phila., Pa.	Apr. 28
	Adv. Apr. 28.	
May 31	Toronto, Ont.	Apr. 14

Dam

May 9	Greenfield, Mass.	Apr. 14

Railways

Apr. 29	New York	Apr. 14
May 3	Ontario	Apr. 28

Excavation, Drainage, Irrigation, Levees, River and Harbor

Apr. 30	Winchester, Ont.	Apr. 21
May 3	St. Paul, Minn.	Apr. 28
May 4	Oroville, Calif.	Apr. 28
May 10	La Mesa, Calif.	Apr. 28
May 11	Tracy, Calif.	Apr. 21
May 12	Sorel, Que.	Apr. 28

Streets and Roads

Apr. 29	New York	Apr. 14
	Adv. Apr. 14 to 28.	
Apr. 29	Cincinnati, O.	Apr. 21
Apr. 29	Colts Neck, N. J.	Apr. 21
Apr. 29	Melrose (Ind. br. Boston), Mass.	Apr. 28
Apr. 29	Buffalo, N. Y.	Apr. 28
Apr. 29	Vermont	Apr. 28
Apr. 30	Lawrence, Kan.	Apr. 14
May 2	Birmingham, Ala.	Apr. 7
May 2	New Jersey	Apr. 14
May 2	Morgantown, W. Va.	Apr. 21
May 2	Indiana	Apr. 21
May 2	Lisbon, O.	Apr. 28
May 2	Euclid, O.	Apr. 28
May 2	Goshen, Ind.	Apr. 28
May 2	Fowler, Ind.	Apr. 28
May 2	Sullivan, Ind.	Apr. 28
May 2	Angola, Ind.	Apr. 28
May 2	Slocan, B. C.	Apr. 28
May 2	Oxford, Miss.	Apr. 28
May 2	Wisconsin	Apr. 28
May 3	Michigan	Apr. 28
May 3	Penetanguishene, Ont.	Apr. 28
May 3	Winamac, Ind.	Apr. 28
May 3	Monticello, Ind.	Apr. 28
May 3	Hartford, Conn.	Apr. 28
May 3	South Dakota	Apr. 28
May 3	Warrenton, N. C.	Apr. 28
May 3	Maryland	Apr. 28
	Adv. Apr. 28.	
May 3	South Dakota	Apr. 28
May 3	Arkansas	Apr. 28
May 3	St. Louis, Mo.	Apr. 14
May 3	New York	Apr. 14
	Adv. Apr. 14 to 28.	
May 3	Washington	Apr. 21
May 3	Virginia	Apr. 21
	Adv. Apr. 21.	
May 3	Shakopee, Minn.	Apr. 21
May 3	South Carolina	Apr. 21
May 3	St. Paul, Minn.	Apr. 28
May 3	Appleton, Wis.	Apr. 28
May 3	Lakewood, N. J.	Apr. 28
May 3	Iowa	Apr. 28
May 3	Massachusetts	Apr. 28
May 3	Boston, Mass.	Apr. 28
May 4	Cleveland, O.	Apr. 28
May 4	Columbus, O.	Apr. 28
May 4	Aurelia, Ia.	Apr. 28
May 4	Oregon City, Ore.	Apr. 28
May 4	Baltimore, Md.	Apr. 28
May 4	St. George, N. Y.	Apr. 28
May 4	Brooklyn, N. Y.	Apr. 28
May 4	Portland, Ore.	Apr. 28
May 4	San Benito, Tex.	Apr. 28
May 4	Holland, Mich.	Apr. 28
May 4	Allegan, Mich.	Apr. 28
May 5	Cudahy, Wis.	Apr. 21
May 5	Long Island City, N. Y.	Apr. 28
May 5	Madison, Wis.	Apr. 28
May 6	Olathe, Kan.	Apr. 21
May 6	Ackerman, Miss.	Apr. 28
May 6	New York, N. Y.	Apr. 28
May 7	Millersburg, O.	Apr. 28
May 9	New Jersey	Apr. 21
	Adv. Apr. 21 and 28.	
May 9	Olympia, Wash.	Apr. 28
May 9	San Diego, Calif.	Apr. 28
May 9	Los Angeles, Calif.	Apr. 28
May 9	Cuyahoga Falls, O.	Apr. 28
May 10	Girard, Kan.	Apr. 14
May 10	St. Louis, Mo.	Apr. 28
May 10	Phila., Pa.	Apr. 28
May 10	New Brunswick, N. J.	Apr. 28
May 12	Holdenville, Okla.	Apr. 28
May 12	Florida	Apr. 28
May 12	Birmingham, Ala.	Apr. 14
May 12	Florida	Apr. 21
May 13	New York	Apr. 28
	Adv. Apr. 28.	
May 13	Fredonia, Kan.	Apr. 28
May 16	Plainfield, N. J.	Apr. 28
	Adv. Apr. 28.	
May 18	Delaware	Apr. 21
May 20	Birmingham, Ala.	Apr. 21
May 20	Leavenworth, Kan.	Apr. 28
May 25	Anderson, Ind.	Apr. 28
May 25	Duluth, Minn.	Mar. 31
May 27	Kentucky	Apr. 28
May 28	Duluth, Minn.	Apr. 7
June 1	Seattle, Wash.	Apr. 28
June 2	Birmingham, Ala.	Apr. 28

See proposal advertising on page 146

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Jointing Water Mains

Laying 20-in. c. i. water mains with LEADITE joints thru rough and mountainous country

Whether you are building an entirely new system or making an extension, laying large or small mains, you will save time, money and labor by using LEADITE.

In making a LEADITE joint NO CAULKING is necessary. Just yarn the joint and pour it full of molten LEADITE; it is an easy and quick operation.

LEADITE allows you to lay more pipe per day. This means getting water into the line without delay.

The quicker you get water to the consumer, the sooner the line produces revenue.

LEADITE makes the work easier on the men by eliminating much of the drudgery of pipe laying. You know what this means in the cold of winter and the heat of summer, and in bad trenches.

The varied applicability of LEADITE makes it the ideal material for jointing cast iron B. & S. water mains.

You will use LEADITE sooner or later as its advantages cannot help but appeal to you favorably.

Familiarize yourself with LEADITE now.

LEADITE does not corrode or rust.

Users know LEADITE makes a good joint.

LEADITE joints improve with age.

LEADITE has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with LEADITE are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.

1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Buildings—Commercial

Bids close *See Eng. News-Record*

Apr. 29 Mt. Vernon, N. Y. ..... Apr. 14
Apr. 29 Wash., D. C. ..... Apr. 7
Apr. 30 Louisville, Ky. ..... Mar. 31
Apr. 30 Joliet, Ill. ..... Apr. 21
May 2 Hamden (br. New Haven), Conn. ..... Apr. 14
May 2 Kansas City, Mo. ..... Apr. 21
May 2 Wauwatosa, Wis. ..... Apr. 28
May 2 Cleveland, O. ..... Apr. 28
May 2 Baltimore, Md. ..... Apr. 28
May 2 Phila., Pa. ..... Apr. 28
May 3 Detroit, Mich. ..... Apr. 28
May 3 Chester, Ill. ..... Apr. 21
May 3 Ft. Lauderdale, Fla. ..... Apr. 28
May 4 Helmuth, N. Y. ..... Apr. 14
Adv. Apr. 21 and 28.
May 4 Odgensburg, N. Y. ..... Apr. 14
Adv. Apr. 14 to 28.
May 4 Rome, N. Y. ..... Apr. 21
Adv. Apr. 21 and 28.
May 4 Reading, Pa. ..... Apr. 28
May 5 Bourne, Mass. ..... Apr. 21
May 5 Bentonville, Ark. ..... Apr. 21
May 5 Chicago, Ill. ..... Apr. 28
May 10 Corpus Christi, Tex. ..... Apr. 28
May 11 St. Joseph, Mich. ..... Apr. 28
May 11 Utica, N. Y. ..... Apr. 28
Adv. Apr. 28.
May 15 Bellingham, Wash. ..... Mar. 24
May 15 Brooklyn, N. Y. ..... Apr. 21
May 15 Oklahoma City, Okla. ..... Apr. 28
June 1 Seattle, Wash. ..... Apr. 28

Buildings—Industrial

Apr. 29 Hackensack, N. J. ..... Apr. 28
May 1 Newark, N. Y. ..... Apr. 21

Buildings—Educational, Religious

Apr. 30 Hartford, Conn. ..... Apr. 28
May 1 Monroe, Mich. ..... Jan. 13
May 2 Corning, O. ..... Apr. 28
May 2 St. Louis, Mo. ..... Apr. 28
May 2 New Haven, Conn. ..... Apr. 28
May 3 Toronto, Ont. ..... Apr. 28
May 3 Indianapolis, Ind. ..... Apr. 28
May 3 Phila., Pa. ..... Apr. 28
May 4 Sonyea, N. Y. ..... Apr. 14
May 4 Ozone Park (mail Jamaica), N. Y. ..... Apr. 28
May 5 Chicago, Ill. ..... Apr. 28
May 5 Norwalk, Conn. ..... Apr. 28
May 7 Springfield, Ill. ..... Apr. 28
May 12 Columbus, O. ..... Apr. 21
May 12 Rochester, N. Y. ..... Apr. 28
May 13 New Orleans, La. ..... Apr. 28
May 18 Helmuth, N. Y. ..... Apr. 28
Adv. Apr. 28.
June 1 Springfield, O. ..... Apr. 14

Federal Government Work

Bids close *See Eng. News-Record*

Apr. 29 Post Office—Newburyport, Mass. ..... Apr. 7
Apr. 30 Barracks — Fort Bragg, N. C. ..... Apr. 7
Adv. Apr. 7 to 28.
May 2 Ferry Vessel — Governors Island (br. New York), N. Y. ..... Apr. 28
May 3 Road—Colorado ..... Apr. 28
May 3 Road—Wyoming ..... Apr. 28
May 3 Barracks—La Carne, O. ..... Apr. 7
May 3 Water Softening Plant—North Little Rock (Ind. br. Little Rock), Ark. ..... Apr. 7
May 3 Breakwater — Milwaukee, Wis. ..... Apr. 7
Adv. Apr. 7 to 28.
May 3 Fire Alarm System—Dewight, Ill. ..... Apr. 14
May 4 Quarters—Whitefish Point, Mich. ..... Apr. 14
May 4 Steel Caisson—Florence, Ala. ..... Apr. 21
Adv. Apr. 21 and 28.
May 4 Road—California ..... Apr. 28
May 5 Barracks — Camp Lewis, Wash. ..... Apr. 14
Adv. Apr. 14 to 28.
May 9 Post Office, etc.—Coeur D'Alene, Idaho ..... Mar. 31
May 10 Post Office — Leominster, Mass. ..... Apr. 7
May 11 Addition—Carville, La. ..... Apr. 14
May 13 Ferry Racks—New York, N. Y. ..... Apr. 21
May 14 Steel Rods—Milwaukee, Wis. ..... Apr. 14
May 14 Barges—Memphis, Tenn. ..... Apr. 21
Adv. Apr. 21 and 28.
May 15 Cross Arms, etc. — Wyoming ..... Apr. 21
May 16 Dredging—Delaware ..... Apr. 21
Adv. Apr. 21 and 28.
May 16 Boilers—Portland, Me. ..... Apr. 28
May 17 Telephone Equipment — Walla Walla, Wash. ..... Apr. 28
May 17 Nurses Home, etc.—Augusta, Ga. ..... Apr. 14
Adv. Apr. 21 and 28.
May 17 Gates—New Mexico, Texas ..... Apr. 21
May 18 Lock Gate—Pittsburgh, Pa. ..... Apr. 21
Adv. Apr. 21 and 28.
May 20 Gates—Montana ..... Apr. 21
May 20 Superstructure—Cleveland, O. ..... Apr. 21
Adv. Apr. 21 and 28.

Bids close *See Eng. News-Record*

May 24 Tug—Milwaukee, Wis. ..... Apr. 28
Adv. Apr. 28.
May 24 Refrigeration Plant—North Little Rock (Ind. br. Little Rock), Ark. ..... Apr. 28
May 25 Retaining Wall—Buffalo, N. Y. ..... Apr. 28
Adv. Apr. 28.
May 25 Dredging—New Jersey ..... Apr. 28
Adv. Apr. 28.
May 31 Quarters—Chicago, Ill. ..... Apr. 21
Adv. Apr. 21 and 28.
June 1 Quarters—Canacao, P. I. ..... Mar. 3
June 3 Canal—Washington ..... Apr. 28
Adv. Apr. 28.

Unclassified

Apr. 29 Station Improvements—New York, N. Y. ..... Apr. 21
May 2 Generating Set—Dannemora, N. Y. ..... Apr. 14
May 2 Stadium—College Station, Tex. ..... Apr. 28
May 3 Entrances—New York, N. Y. ..... Apr. 21
May 4 Heating—Sonyea, N. Y. ..... Apr. 14
May 5 Fire Alarm System—Long Island City, N. Y. ..... Apr. 28
May 5 Fire Boats—Portland, Ore. ..... Apr. 28
May 6 Subway—New York ..... Mar. 31
May 6 Signal System—Phila., Pa. ..... Apr. 28
May 6 Wiring, etc.—Cleveland, O. ..... Apr. 28
May 10 Subway, etc.—Chicago, Ill. ..... Apr. 28
May 11 Exit Facilities, etc.—Kings Park, N. Y. ..... Apr. 28
Adv. Apr. 28.
May 19 Coal and Material Handling Plant—Mobile, Ala. ..... Apr. 28
Adv. Apr. 28.

Materials

May 2 Water Meters, etc. — Berea, O. ..... Apr. 14
May 2 Coal Handling Equipment—Richmond, Va. ..... Apr. 21
May 2 Trap Rock—New Jersey ..... Apr. 14
May 3 Wood Blocking, etc.—Chicago, Ill. ..... Apr. 28
May 3 Generator, etc.—Perkinston, Miss. ..... Apr. 28
May 3 Portland Cement, etc.—St. Paul, Minn. ..... Apr. 28
May 5 Pipe—New York, N. Y. ..... Apr. 28
May 16 Pipe—Boston, Mass. ..... Apr. 28

News of the Week

Waterworks

Proposed Work

La., Many—Soon takes bids waterworks and distribution system, incl. well, tank on tower, pumping equipment, mains, etc. $50,000. Swanson-McGraw, Inc., Balter Bldg., New Orleans, engr. Noted Mar. 24.

Mich., Halfway — Made plans 30 mi. mains to complete entire system. H. R. O'Mara, Halfway, consult. engr.

Mich., Royal Oak (Ind. br. Detroit)—Plans extending mains 40,000 lin.ft. 6 and 8 in. c.i. mains in various streets. R. J. Whitney, city mgr.

Mich., Rochester—Made plans 12,260 ft. 6- to 14-in. c.i. mains, special, hydrants, etc. Menefee & Dodge, Ann Arbor, engrs.

Ill., Moline—See "Streets and Roads."

Ill., Pana—Election soon $30,000 bonds, imounding dam to increase water supply. T. J. Vildor, mayor.

Wis., Shorewood (mail Milwaukee)—Making plans 5,000 ft. 8- to 12-in. c.i. mains in various streets. H. J. Schmitt, Shorewood, engr.

Kan., Longton — Making preliminary plans complete waterworks and distribution system. $50,000. F. E. Delvin, 614 Bitting Bldg., Wichita, engr.

Neb., Beatrice—Plans 1 m.g. reservoir, pipe lines from wells to transmission lines. $115,000. Grant Fulton & Letton, 525 South 13th St., Lincoln, engrs. Noted Feb. 17.

N. D., Harvey—Election May 2, $20,000 bonds, improving and enlarging waterworks. L. W. Miller, city aud. Engineer not announced.

Ark., Ft. Smith—Making preliminary plans concrete and earth dam across Poteau River for new water supply. $45,000. Private plans. J. H. Parker, mayor.

Ark., Pine Bluff—Soon takes bids several miles watermains and sewer extensions in southwest section of city, $15,000; also distribution system and sewers in 43 blocks in Impvt. Dist. 2. G. B. Smith, 409 Natl. Bank Bldg., engr. Noted Dec. 9.

Tex., Big Lake — Election soon $80,000 bonds, complete waterworks. Devlin Eng. Co., 100 Central Bldg., Amarillo, engrs. Noted Mar. 31.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Mo., St. Louis—Water Dept. takes bids in May or June, rein.-con. covers for four 275 x 600 ft. storage reservoirs at Bissells Point Sta., and one 402 x 500 ft. at Baden Pumping Sta. $600,000. L. Day, City Hall, comr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids hurdle dikes complete with mattress work, bank revetment, etc., in Missouri Co. on St. Louis Co. side near Howards Bend Waterworks Station. $150,000. L. Day, City Hall, comr. Noted Jan. 27.

Okla., Byron — Election soon $22,000 bonds, new waterworks. C. A. Wood, Stillwater, engr.

Okla., Eldorado—Plans waterworks improvements. $110,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs. Noted Nov. 25.

Okla., Geronimo—Made preliminary plans new waterworks. $20,000. C. Mooney, mayor. Engineer not selected.

Okla., Martha—Making preliminary plans waterworks $15,000. Benham Eng. Co., 521 Gumbel Bldg., Kansas City, Mo., engrs.

Calif., Monrovia—Plans election $200,000 or more bonds, extending water works in addition to reservoir, etc. O. A. Gierlich, city engr.

Calif., Monterey Park—Making plans 2- or 2½ m.g. rein.-con. reservoir. O. A. Gierlich, 1st Natl. Bank Bldg., Monrovia, engr. Noted Dec. 9.

Que., Quebec—City Council plans borrowing $225,000, new water reservoir and extending c.i. mains, etc. Noted Feb. 3.

Bids Desired

Mass., Falmouth—May 6, by City, steel standpipe 26 ft. diam. x 90 ft. high, foundations for same with masonry concrete and stone enclosure, and separate turretted tower. Richardson & Gay, 220 Devonshire St., Boston, consult. engrs.

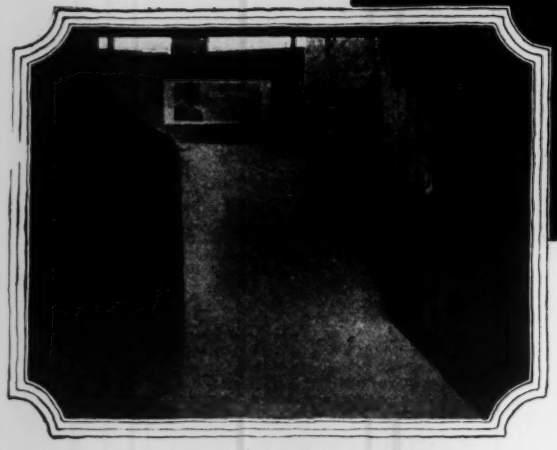
N. Y., Liberty—May 11, by Stevensville Water Dist., constructing reservoir and distributing mains. D. C. Nolan, Jr., Natl. Bank Bldg., Tarrytown, engr.; adv. E. N.-R. Apr. 28.

N. Y., Ogdensburg — May 11, by Dept. Mental Hygiene, Capitol, Albany, constructing reservoir, furnishing and installing pumps and pipe lines at St. Lawrence State Hospital, here. L. Farrington, secy.;

Constr. News page 262

When time is money . . .

use High-Early-Strength concrete made with standard (not special) Universal Cement



Driveway, Decatur (Ill.) Builders Supply Co., built and opened to truck traffic in 3 *days* thru use of thoroly tested methods and standard—not special—Universal cement. For further details use the accompanying coupon.

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago

Without obligation, please send me detailed information on methods for securing strong concrete in 3 *days* with standard—not special—Universal cement, the same quality Universal regularly used.

Name ----------

Address ----------

ENR 4-28-27

Industrial Driveway Built on *Friday* Opened to Traffic *Monday*

"We needed a new driveway in our plant," says the Decatur (Ill.) Builders Supply Co., "but could not afford to tie up truck service any length of time. We thot it would be necessary to use a *special* cement to secure quick use of the pavement until we learned that we could obtain *High-Early-Strength* concrete by using fully tested methods and standard—not special—*Universal* cement, the same kind we had stocked in our warehouse.

"We followed directions and placed the concrete Friday afternoon. Monday morning the driveway was opened to our heavily loaded trucks and has been in constant use ever since."

High-Early-Strength Universal Concrete gives strong concrete in 3 *days*. It may be made as workable as desired. It is being used on all types of jobs. As it also has a higher *ultimate* strength, it is *permanently* better and stronger than concrete as ordinarily placed. The accompanying coupon will bring full details promptly.

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

adv. E. N.-R. Apr. 28. Noted Apr. 14 under "Buildings—Commercial."

Va., Clarenden—May 2, by Bd. Supervs. Arlington Co., 90,000 lin.ft. 8- to 24-in. mains, Project A. B. and C. A. E. Phillips, 2325 Pennsylvania Ave., Wash., D. C., ch. engr.; adv. E. N.-R. Apr. 28.

O., Euclid—See "Sewers."

Ind., Elkhart — Apr. 29, by City Clerk, feeder lines, mains, distribution system, valves and hydrants in various streets. Burns & McDonald Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs.

Mich., Lochmoor—May 3, by P. Allard, village clk., approximately 20,000 lin.ft. 12 in. mains, valves, hydrants, etc. in various streets. M. L. Brown & Son, 403 Capitol Theatre Bldg., Detroit, engrs.

Minn., St. Paul—May 3, by A. E. Eggert, city purch. agt., approximately 30 tons c.i. water pipe specials. G. M. Shepard, city engr.

Colo., Pueblo—A. C. Shields, genl. mgr. Denver & Rio Grande Western R.R. Co., Equitable Bldg., Denver, A. Ridgeway, ch. engr., taking bids modern water treating plant, embodying latest improvements for economical treating water for locomotive and drinking purposes. $40,000.

Que., Lauriervville — Apr. 30, by H. Lewileux, city secy., aqueduct. $50,000. Z. Langlais & Co., 57 Claire Fountaine St., Quebec, engrs.

B. C., Vancouver—May 3, by City Council, 15,000 ft. 6 in. and 5,000 ft. 8 in. c.i. pipe. C. Brackenridge, City Hall, engr.

Contracts Awarded

Mass., Boston—Supply Dept., iron castings and bronze fittings, to Gibby Fdry. Co., Condor St., East Boston, $33,424.

Pa., Pittsburgh—City Controller, laying and relaying c.i. pipe line in Neville St., Beechwood Blvd., South Dallas, Saline and Aylesboro Aves., to F. Manilla & Sons, 1507 North Lang St., $41,015, engrs. est. $48,000; also 2 and 4 in. concrete relining Highland Reservoir 2, to A. V. Purnell, Jackson St., North Side, $220,000, engrs. est. $335,000. Noted Mar. 24.

Md., Baltimore—Bd. Awards, brass service pipe fittings to Bureau of Water Supply, to Mueller Co., Decatur, Ill., $10,621. Noted Apr. 21.

Va., Front Royal—Town, for Clearwater Reservoir, to Gordon & Plesinger, Hancock, Md., $11,090. Noted Mar. 17.

Miss., Biloxi — Waterworks extensions, incl. 2 stucco and concrete pumping stations, to Collins Bros., Biloxi, $6,750; 28,605 ft. 4- to 12-in. mains, to Biloxi Plumbing & Heating Co., Biloxi, $51,773. Noted Mar. 3.

O., Burton—For 50,000 gal. storage tank, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $6,987. Noted Apr. 7.

O., Cleveland—Cuyahoga Co., 7,400 ft. 6 and 12 in. c.i. main in Highland Dr., Impvt. 1351, to E. Cesa, 2462 Baldwin Rd., $37,209. Noted Mar. 24.

O., Cleveland—Cuyahoga Co., 6,400 ft. 12 in. c.i. main in Center Ridge Rd. Impvt. 1254, to Kassouff & Co., 2400 Althen Ave., $30,461; and 4,200 ft. 6 in. Temple Ave., Impvt. 360, to A. Marra Co., Engineers Bldg., $12,922.

O., Cleveland—Cuyahoga Co., 19,000 ft. 12- to 16-in. c.i. mains in Aurora Rd., Impvt. 1151, to Lloyd Contg. Co., 2644 East 55th St., $79,300. Noted Mar. 10.

Ia., Cedar Rapids—Test wells for new waterworks, to Layne Bowler Co., 407 South Dearborn St., Chicago, Ill., $14,400. Noted Jan. 13.

Minn., Hills—Waterworks, incl. mains, reservoir, pump house and well equipment, to Peterson & Henningson, Walnut and Grove Sts., Minneapolis, $17,000; and steel tank on tower, to Pittsburgh Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., $5,085.

Minn., Minneapolis — F. S. Gram, city purch. agt., 3,000 curb and 200 corporation cocks, to Crane Co., 400 3rd Ave. N., at $1.54 and $0.866 each respectively; also 300 curb and 3,000 corporation cocks, to Mueller Mfg. Co., Decatur, Ill., $1.33 and $0.70 respectively. Noted Mar. 10.

Ont., Kingsville — Pub. Utilities Comn., furnishing 1,965 lin.ft. 16 in. intakes, to Toronto Iron Wks., foot Cherry St., Toronto, $9,324. Noted Feb. 17.

B. C., Vancouver — Greater Vancouver Water Dist., 18,270 lin.ft. 60 in. woodstave pipe line from Seymour Intake to new intake at Seymour Falls on Greater Vancouver watershed, to Pacific Coast Pipe Co., 1551 Granville St., $128,309; and 3,000 ft. 20 in. steel riveted pipe line connecting little Mountain reservoir with Point Grey municipal high level supply, to Dawson Wade & Co., 500 Beatty St., $11,184.

Sewers

Proposed Work

Tenn., Monterey — Making plans 4 mi. sewers, etc. in all streets. $40,000. Long & Co., Bennie-Dillon Bldg., Nashville, engrs.

O., Hamilton—Made plans sanitary sewer in Lindenwald St. $40,000. W. Willard, city engr.

Ind., Elkhart — Making plans sewerage system. Burns & McDonald, 400 Interstate Bldg., Kansas City, Mo., engrs.

Ill., Moline—See "Streets and Roads."

Ill., Specialville — Made plans sewerage system, incl. 8- to 54-in. tile pipe, etc. $400,000. Barker, Flavin, Sheets & Wallace, 35 East Wacker Dr., Chicago, engrs.

Kan., Longton — Making preliminary plans sanitary sewerage system. $42,000. F. E. Devlin, 614 Bitting Bldg., Wichita, engr.

Mo., Clayton—St. Louis Co. making preliminary plans sewerage system in Lemay Ferry Dist., incl. Luxemburg, Longwood, Dewey Heights, Pine Breeze and South Bway. Sects., $300,000; and Jennings Dist. 1, incl. Jennings, Woodlawn, West Walnut Manor and Pine Lawn Sects., $800,000.

Mo., St. Charles — Making preliminary plans improving sewers in various streets. $50,000. H. D. Smelser, City Hall, engr.

Mo., St. Louis—Soon takes bids Glaise Creek Sewer 27, 1,135 ft. 10- to 18-in. vitr. clay pipe, and South Hurst Dist. Sewer 1, 2,080 ft. 8- to 24-in. vitr. clay pipe, etc. W. W. Horner, 200 City Hall, engr.

Mo., Wellston—Wellston Sewer Dist., J. Harnage, atty., Brentwood, making preliminary plans 8- to 36-in. sewers in Natural Bridge Ave. between Lucas St. and Hunt Rd., and Sutter Ave. between Bartmer Ave. and east city limits. $740,000.

Okla., Addington — Made preliminary plans 21,100 ft. 8- to 12-in. vitr. clay sewers, etc. in all streets. $30,000. J. C. Milliken, Continental Bldg., Oklahoma City, engr.

Okla., Allen—Made preliminary plans 7 mi. sewerage system in all streets. $60,000. J. C. Milliken, Continental Bldg., Oklahoma City, engr. Noted May 13.

Okla., Marshall — Making preliminary plans septic tank, and 20,000 ft. 8- to 12-in. sewers in all streets. $28,000. G. F. Ingle, mayor. Engineer not selected.

Okla., Ponca City—Plans extending 20,800 ft. 8- to 12-in. vitr. clay sewers, etc. in Highland and England Additions, $28,236. E. A. Jones, Ponca City, engr.

Okla., Wanette — Making plans septic tank, and 15,300 ft. 6- to 12-in. vitr. clay sewers in all streets. $50,000. C. A. Wood, Stillwater, engr.

Nev., Reno—Making plans improving and extending sewerage system, incl. outfalls to disposal plant and activated sludge sewage disposal plant, etc. $764,000. King & Malone, Cladinos Bldg., engrs.

Calif., Gilroy—Plans storm sewer in various streets. $25,000. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Calif., Los Angeles — Los Angeles Co. plans 8 in. cement sewer in various streets and alleys, Co. Impvt. 312. To exceed $25,000. G. W. Jones, Hall of Records, engr.

Calif., San Rafael — Defeated $110,000 bonds, sewers in various streets. Noted Mar. 31.

Ont., Walkerville — Making plans relief sewer in Walker Rd. $125,000. A Patterson, City Hall, engr.

Bids Desired

Mass., Beverly—May 4, by South Essex Sewerage Bd., constructing Sect. 10 Trunk Sewer, 900 lin.ft. 36 in. diam. concrete and 80 lin.ft. 30 c.i. pipe, etc. South Essex Sewerage Bd., Fort Ave., Salem, G. F. Ashton, clk., engr.

N. Y., New York—May 6, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Shore Dr., Potter Pl., Lafayette and Stadium Aves., etc.

N. J., Butler—May 9, by Boro Council, Municipal Bldg., sanitary sewer north and south sides Kiel Ave. Clyde Potts, 30 Church St., New York City, N. Y., consult. engr., adv. E. N.-R. Apr. 28.

N. J., Dumont—May 11, by Mayor and Boro Council, sewers and appurtenances in various streets. T. F. Bowe, 110 Williams St., New York City, consult. engr.; adv. E. N.-R. Apr. 28.

Md., Baltimore—May 4, by Bd. Awards, sewers and retaining wall in Broening Park. W. F. Courts, Druid Hill Park, park engr.

Md., Baltimore—May 4, by Bd. Awards, 10,662 lin.ft. 8- to 15-in. vitr. sewers, etc. in miscellaneous distrs. in Sanitary Contr. 241; 4,392 lin.ft. 12- to 18-in. Dist. P-11 in Contr. 242; also storm drains and sanitary sewers in Dist. H-6 and J-4, Stormwater Contr. 105. M. J. Ruark, 311 Courtland St., sewerage engr.

N. C., Cherryville—May 6, by Mayor and Bd. City Comrs., sewerage improvements, incl. 28,000 ft. 8- to 12-in. vitr. clay or concrete pipe, 2 Imhoff and 3 dosing tanks, 11 sand filter beds, etc. Carolina Eng. Co., 917-19 Johnston Bldg., Charlotte, consult. engr.

O., Cincinnati—May 3, by Comrs. Hamilton Co., Sanitary sewer 25, Dist. 2, 20,884 ft. 6- to 10-in. pipe. $64,563. L. C. Boyatt, Court House, engr.

O., Cuyahoga Falls — See "Streets and Roads."

O., Euclid—May 2, by City, sewer and watermains in Tracy Ave., East 208th St., and Lake Shore Blvd. $25,000. F. A. Thomas, Town Hall, engr.

O., Maple Heights (br. Bedford)—May 2, by City, storm and sanitary sewers in Woodbrook and Corkhill Rds. C. A. Courtney, 1770 East 11th St., Cleveland, engr.

Mich., Detroit—May 4, by Commissioner Pub. Wks.; City Hall, concrete or brick sewers in Redmond Ave. Seven Mile Arm, Seven Mile Rd. Arm, Essex Ave. Arm of Newport Sewer, Newport-Avondale Arm, Sect. 3, Liddesdale Sewer, also Sects. 6 and 7, Mill Road Sewer. P. A. Fellows, city engr.

Ill., Matteson — Shields, Jordon & Roe, engrs., 8 South Dearborn St., Chicago, taking bids sewage disposal plant, 8 and 10 in. sewers, pumping station, 4 and 6 in. mains, etc. in various streets, here, for Indian Wood Golf Club. $25,000.

Minn., St. Paul—May 3, by A. E. Eggert, city purch. agt., constructing Belt Line Reaney St. Sewer extension, 6,622 ft. 12- to 48-in. pipe, standard man-holes, etc. $25,000. G. M. Shepard, city engr.

Kan., Horton — May 3, by City Clerk, sewage disposal plant and sewers in various streets. $55,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Mo., Sedalia—May 2, by City Clerk, 25,573 ft. 8- to 24-in. sewers, and disposal plant for Southwest Dist. $150,000. Burns & McDonald, 400 Interstate Bldg., Kansas City, engrs. Noted Apr. 14.

Calif., Los Angeles—May 4, by City Harbor Dept., 2,925 ft. 24- to 36-in. rein.-con. sewer, etc. for Fish Canneries.

Calif., San Jose—J. J. Lynch, city clk., taking bids concrete storm water drainage sewer, etc., in Newhall and Emory Sts., etc., Hester Dist. To exceed $25,000. W. Popp, city engr.

Ore., Lakeview—May 17, by S. A. Mushen, city engr., sewerage system, for City. $75,000.

Contracts Awarded

N. Y., Syracuse — Bd. Contr. & Supply, City Hall, 12 in. combined sewer in Craddock St., to A. Sposato, 333 James St., $865; and 24 in. sewers in Meadowbrook Dr., etc., to Bird & Street, Wieting Bldg., $63,851. Noted Apr. 7.

N. J., Teaneck — Twp. Com., Municipal Bldg., 1,400 ft. 8 in. sanitary sewer in Grayson and Cranford Pls., to J. Sestone, 65 Glenridge Ave., Montclair. Noted Mar. 24.

Pa., Pittsburgh—Constructing 10 and 24 in. terra cotta, also 30 and 36 in. rein.-con. sewers in Crane Ave., to D. Benintend Co., Hargrove St. Engrs. est. $25,000.

Md., Kensington—Comrs. Baltimore Co., Court House, Towson, 6,857 lin.ft. 8 and 12 in. vitr. sewer, 3,150 lin.ft. 6 in. house connections and sewage settling tank, here, to Adams & Marino, Old Town Natl. Bank Bldg., Baltimore, $25,995.

D. C., Wash. — Dist. Comrs., District Bldg., to W. F. Brenizer Co., 101 New York Ave. N. E., sewer in Good Hope Rd. $2,713, in North Illinois Ave. $4,602, and in McMillian Park $26,277; to M. Cain Co., Wash., D. C., Sect. 2, Nebraska Ave. Storm Water Sewer $29,166, and Sect. 4 Falls Branch Storm Water Sewer $54,189. Grand total $116,947.

O., Burton—Constructing sewage plant, to Freeman & Jones, 5713 Euclid Ave., Cleveland, $24,240.

O., Cleveland—City, for 300 ft. 4 in. C.B. and 440 ft. 12- to 15-in. vitr. sewer in portion Harvard Ave., and 1,600 ft. 12- to 20-in. vitr. tile sewer in Glendale Ave., to W. P. Burkhardt, 3905 West 20th St., $6,017 and $6,631 respectively; 1,262 ft. 4 x 6 ft. rein.-con. sewer in Burke Brook, to Stevens Constr. Co., 330 The Arcade, $37,785; 280 ft. 2 in. C. and 1,210 ft. 12- to 24-in. vitr. tile sewer in portion Harvard Ave., to Sewer Constr. Co., 3407 East 114th St., $8,154; 500 ft. 12 in.-vitr. tile

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Sewers (Continued)

sewer in Gibson Ave., to Janashale & Callow, 1246 East 83rd St. $4,339, 1,700 ft. 18- to 27-in. Ralph Ave., to Langanhan Constr. Co., Marshall Bldg. $19,010, 535 ft. 12- to 15-in. Shiloh Rd., to A. George, 9813 Quincy Ave. $1,952, and 17,151 ft. 12- to 15-in. Silverdale Ave., to Huron Constr. Co., 640 Huron Rd. $6,132. Grand total $90,020.

Ill., Palatine—Sewers in McIntosh and Merrill Subdivisions, to Pastoret, Dorsey & Bryant, Duluth, Minn., $169,867. Noted Mar. 18.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to J. Brogan & Son, 211 Grand Ave., sewers in Appleton Ave. $4,636, Girard Ave. $9,125, Fulton St. $3,075, Lureborger Terrace $904, Locust St. $4,064, Mernerke Ave. $370; Southway St. $10,241, 38th St. $960, 47th and 48th Sts. $81,401; to P. & L. Co., 038 Edgewater Ave., Fiebrantz Ave. $1,408, and 44th St. $713; to Wenzel & Henoch, 49th and State Sts., Gruber Ave., $1,041; to Zimmerman & Zimmerman, 3402 Grand Ave., Highland Ave., Roosevelt Dr. and 20th St. $24,732, and 27th Ave. $5,210. Grand total $147,880.

Kan., Pratt—Sewage disposal plant, to Weighton Constr. Co., Anderson, Ia., $23,300. Noted Mar. 31.

Neb., Beaver City—H. B. Hall, city clk., City Hall, clay sewers in Dist. 1, to Chambers Constr. Co., 807 1st Natl. Bldg., Lincoln, $31,000. Noted Mar. 17.

Tex., Dalhart — Extending sewerage system and constructing new disposal plant, to Kirkwood, Wharton & Lee, 456 Main Ave., San Antonio, $67,198.

Wash., Seattle—Bd. Pub. Wks., 7,870 ft. 8- to 18-in. sewers in 36th Ave. S. W., to McHugh & Coluccio, 517 3rd Ave. $33,079.

Calif., Huntington Park — City Council, 25,137 ft. 6- to 15-in. vitr. sewer in Wilson Tract, Florence Ave., etc., to J. Chutuk, Wilcox Bldg., Los Angeles, approximately $29,500. Noted Mar. 24.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 2, constructing Sanitary Sewer Joint Outfall 3, to G. K. Thompson, 761 Brockman Bldg., $171,739. Noted Feb. 3.

Ont., Hamilton—Storm sewer in Fraser St., to A. Cope & Sons Ltd., 29 Albert St., $53,000. Engrs. est. $60,000.

Bridges

Proposed Work

New Jersey—State Hy. Comn., Trenton, making plans swing bridge over Bay Head Manasquan Canal, Ocean and Monmouth Counties. $100,000. Robinson & Steinman, 25 Church St., New York City, engrs.

Miss., Natchez—Natchez Bridge & Terminal Co., c/o H. E. Bovay, 1263 Agnes Pl., Memphis, Tenn., takes bids about June 30, fixed truss steel bridge with concrete piers, incl. 800 ft. channel, one 420 ft. and five 400 ft. spans, etc., across Mississippi River, here. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs. Noted Mar. 18 under "Vicksburg."

La., Shreveport—Making plans steel and rein.-con. bridge. $500,000. Harrington, Howard & Ash, 1012 Baltimore St., Kansas City, Mo., engrs.

Tenn., Lancaster—Smith Co. (Carthage) appropriated $40,000 bonds, bridge across Caney Fork River, near here.

Tenn., Madisonville—State Dept. Highways & Pub. Wks., Nashville, making surveys probably concrete and steel bridge over Little Tennessee River, Monroe Co., near here. C. N. Bass, highway engr.

Ind., Anderson—Madison Co. plans approximately 300 ft. bridge, on North Meridian St. $300,000. A. Steele, co. surv.

Wisconsin—State Hy. Comn., Madison, C. H. Kirch, bridge engr., making plans Hoffman Bridge, Town Rib Lake, Taylor Co., C. Kelnhofer, comr., Medford; Tully Bridge, Utica, and Richman Bridge, Wauzeka, Crawford Co., B. J. Kneeland, comr., Prairie du Chien; Mack Bridge, Roxbury, also Andreas Bridge and Goltz Bridge, Town Springfield, Dane Co., J. R. Caldwell, comr., Madison; Johnson Bridge, Town of Albion, Jackson Co., O. H. Overlein, comr., Black River Falls; Clark Mills Bridge, Town Cato, Manitowoc Co., J. Connell, comr., Manitowoc; bridges at Sta. 105 plus 91, Ellington, Sta. 539 plus 61, and Sta. 533 plus 45, Greenville, Outagamie Co., A. G. Brusewitz, comr., Appleton; Brown Bridge, Roudebush Bridge, and Gillingham Bridge, Town of Marshall, McCumber Bridge and Austin Bridge, Town of Forest, Smith Bridge, Town of Bloom, and Fogo Bridge, Town of Rockbridge, Richland Co., W. V. Robinson, comr., Richland Center; Scherry Bridge, Edgar, Anderson and Aiken Bridges, Town of Kickapoo, Vernon Co., A. Ristow, comr., Viroqua; Huss Bridge, Town of Brighton, Dill Creek Bridge, Hull, and Salter Bridge, Brighton, Marathon Co., J. A. Clark, comr., Wausau. H. J. Kuelling, Madison, state highway engr.

Kan., Abilene—See "Streets and Roads."

Kan., Fredonia—See "Streets and Roads."

Mont., Missoula—Northern Pacific R.R. Co., H. E. Stevens, ch. engr., Ry. Exch. Bldg., St. Paul, Minn., making plans 100 ft. concrete slab on steel girders, at Austin St. viaduct. $100,000.

Mo., University (mail St. Louis)—Making preliminary plans rein.-con. and steel bridge over River Des Peres near Midland and Aherns Blvds. $30,000 bonds voted for same. W. A. Heimbuecher, City Hall, engr.

Okla., Pond Creek—Grant Co. making preliminary plans new 5 span 400 ft. steel truss bridge on piers over Salt Fork River, on Road 11. $80,000. J. M. Page, Capitol, Oklahoma City, highway engr. Noted Nov. 25.

Calif., Freeport (mail Sacramento) Sacramento Co. (Sacramento) plans steel bascule bridge over Sacramento River, here. $250,000. C. W. Deterding, Jr., Sacramento, co. engr.

Calif., Los Angeles—Made 1st St. Viaduct, 2,062 ft. long, incl. approaches, 71 ft., etc. To exceed $650,000. M. Butler, city bridge engr.

Que., Quebec—City Council plans viaduct and bridges. $100,000. J. A. Tremblay, Quebec, engr.

Que., Quebec—Council plans superstructure 600 ft. concrete and steel bridge over St. Charles River, $133,000. J. A. Tremblay, Quebec, engr.

Bids Desired

Vt., Marshfield—Apr. 29, by Bd. State Hys. Montpelier, concrete bridge and approaches, here. S. B. Bate, State Bd. Highways, comr.

Conn., Bridgeport — May 12, by Bridge Comn., Yellow Mill Bridge, 3 span 200 ft. concrete and steel double leaf deck bascule, on Stratford Ave. $1,150,000. E. J. Buegler, Cheshire, engr. Noted Jan. 13.

Pa., Phila.—May 25, by Dept. Pub. Wks., Bureau Engineering, City Hall, constructing University Bridge over Schuylkill River, at 34th St. G. H. Biles, dir.; adv. E. N.-R. Apr. 28.

Maryland—May 3, by State Roads Comn., 601 Garrett Bldg., Baltimore, double span rein.-con. arch bridge in Baltimore Co.; and double span steel and concrete girder bridge in Harford Co. J. N. Mackall, chn.; adv. E. N.-R. Apr. 28.

Virginia—May 12, by State Hy. Comn., Richmond, bridge over Chappawamsic Creek, Project S-79. C. S. Mullen, ch. engr.; adv. E. N.-R. Apr. 28.

N. C., Asheville—Apr. 30, by Mayor and Bd. Comrs., City Hall, constructing Chestnut Street Viaduct, 318 ft. long, steel girder type. Gilbert C. White Co., Asheville, engrs.

N. C., Greensboro—May 12, by City Manager, City Hall, constructing 8 solid floor deck type railroad bridges; 2 rein.-con. and steel highway bridges; 1 steel foot bridge, and remodeling 1 railroad bridge. $1,000,000. A. Fellheimer, 155 East 42nd St., New York City, archt. and engr.

South Carolina — May 3, by State Hy. Dept., Columbia, constructing rein.-con. overhead bridge over Atlantic Coast Line Ry. tracks on Route 41, Federal Aid Project 59, Berkeley Co.; also sand fill approaches to Santee River Bridge, on Routes 4 and 30, Federal Aid Project 252, Orangeburg and Clarendon Counties. C. H. Moorfield, highway engr.

Mississippi—May 3, by Clerk Jackson Co. (Pascagoula), electrically driven swing spans each 200½ ft. long, with machinery, roadway crossings gates, flooring, surfacing, roadways, etc., across Dog River at Moss Point, and over Pascagoula River, at Pascagoula. Noted Feb. 17.

O., Akron—May 13, by Comrs. Summit Co., 1 span rein.-con. slab and girder bridge, on South St. $30,500. H. G. Sours, Court House, engr.

Ind., Indianapolis—May 12, by City, repairing 1 pier of College Ave. bridge over Fall Creek. $70,000. F. C. Lingenfelter, City Hall, engr.

Ind., Lawrenceburg—May 2, by Comrs. Dearborn Co., constructing bridge in Miller Twp.; Greenham and George Ziegler bridges, in Manchester Twp.; Carr bridge, Caesar Creek Twp.; and bridge over Boyds Branch on dividing line Clay and Caesar Creek Twps. B. McLeaster, Lawrenceburg, aud.

Mich., Jackson—May 2, at 829 Greenwood Ave., Jackson, 4 span 181 ft. steel deck girder bridge, E. A. Grade Separation 381101, Contrs. 1 and 2. R. R. Havens, resident engr.

South Dakota—See "Streets and Roads."

Ill., Chicago—See "Unclassified."

Wisconsin—May 3, by State Hy. Comn., Superior, constructing Pike River Bridge, Div. Job 2710, and Upson Bridge, Div. Job. 2712, Kenosha Co. H. W. Vroman, div. engr. H. J. Kuelling, state engr.

Wis., Marinette—May 5, by Bd. Road Comrs. Menominee Co., Menominee, Mich., L. Nadeau, chn., and Marinette Co., Marinette, Wis., C. Wunderlich, chn., constructing Chalk Hill Bridge, here.

Iowa—May 3, by State Hy. Comn., Ames. **(F.A.P. means Federal Aid Project, P.B.P. means Primary Bridge Project)**, two 75 x 20 ft. thru plate girder spans with eight 40 x 20 ft. concrete deck girder approaches on F.A.P. 288, Cherokee Co.; one 140 x 20 ft. high truss bridge on P.B.P. 375, Mitchell Co.; one 70 x 20 ft. pony truss bridge on P.B.P. 251, Page Co.; 16 culverts on P.B.P. 268 Cherokee Co., 7 culverts on P.B.P. 347, Decatur Co., 1 culvert on P.B.P. 50, Henry Co., 19 culverts on P.B.P. 302, Iowa Co., 1 box culvert on P.B.P. 360, Pottawattamie Co., 4 culverts on P.B.P. 153, Washington Co. R. W. White, highway engr.

Ia., Allison — May 5, at office Auditor Butler Co., two 60 x 20 ft. pony truss and one 40 x 20 ft. I-beam bridges, also 11 box culverts. D. W. Burch, Allison, co. engr.

South Dakota—See "Streets and Roads."

Que., St. Henri de Levis—May 3, by J. E. Gosselin, city secy. and treas., 2 span 160 ft. concrete and steel bridge over River Boyer. $35,000. I. E. Vallie, Quebec, engr.

Contracts Awarded

Massachusetts—Essex Co., Court House, Salem, rebuilding section bridge over Saugus River, in Lynn and Saugus, to C. A. Zappe, 5 Lindale Ave., Dedham, $28,264. Noted Mar. 31.

R. I., Providence—Dept. Pub. Wks., contract substructure Points St. Bridge, to W. V. Polleys Co., as published Aug. 5, 1926, not rescinded. Status of contract remains same. This corrects report in Apr. 7 issue.

Pa., New Kensington—Allegheny Co. (Pittsburgh) and Westmoreland Co. (Greensburg), at Court House, Pittsburgh and Greensburg, Bridge 10 over Allegheny River, here, to Amer. Bridge Co., Frick Bldg., Pittsburgh, $784,000. Engrs. est. $750,000.

Pa., Pittsburgh—Comrs. Allegheny Co., constructing Clairton-Glassport Bridge over Monongahela River, to Ft. Pitt Bridge Co., Oliver Bldg., $654,029. Engrs est. $750,000.

Georgia—State Hy. Dept., East Point, constructing bridge over Etowah River, on Marietta Cartersville Rd., Bartow Co., to J. B. McCrary, Citizens & Saving Bank Bldg., Atlanta, $51,001, engrs. est. $60,000; also bridge on Fitzgerald-Abbeville Rd., Bowens Mill, Ben Hill Co., to H. E. Ragsdale, Macon, $23,540, engrs. est. $25,000. Noted Mar. 31.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, bridges on Project 5-A, Obion Co., to Peterson & Earnhart, Montgomery, Ala., $109,884; Project 121-B, Humphreys Co. to J. Andrews, Crab Orchard, $35,418; Project 319-A, Claiborne Co., to Austin Bridge Co., Atlanta, Ga., $7,057; Project 324-B, Hawkins Co., to Harrison, Walters & Prater, White Plains, $26,678; and on Project 351-A, Weakle Co., to F. G. Hall & Co., Martin, $167,087. Grand total $346,124. Noted Mar. 10, under "Streets and Roads."

O., Youngstown—Mahoning Co., shortening Market St. bridge 50 ft. and extending southern approach 50 ft., steel, to Wymer-Harris Constr. Co., Youngstown, $70,900. Engrs. est. $70,000. Noted Jan. 20.

Indiana—State Hy. Comn., Indianapolis, **(F.A. means Federal Aid)**, rein.-con girder bridge over Drainage Ditch, rein.-con. arch bridge over Mysterious Spring, and rein.-con. arch bridge over Kanle Creek, on F.A. 16, Rd. 150, Contr. 120, Orange Co., to Burt Constr. Co., Newcastle, $30,781; 2 steel truss bridges, one over Tippecanoe River, and other over Walnut Creek, on F.A. 66, Rd. 30, Contr. 123, Kosciusko Co., also bridge over G. & M. branch New York Central Ry., and rein.-con. bridge, F.A. 89, Rd. 20, Contr. 126 Elkart Co., to Winamac Cement Products Co., Winamac, $28,715

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Hurt Bldg.

Chicago, Ill.
McCormick Bldg.

Cincinnati, Ohio
Dixie Terminal Bldg.

Detroit, Mich.
Book Building

New Orleans, Louisiana
Whitney Central Bldg.

New York City
50 Church St.

Philadelphia, Pa.
Packard Building

Pittsburgh, Pennsylvania
Federal Reserve Building

San Francisco, Calif.
Monadnock Building

St. Louis, Mo.
Railway Exchange Bldg.

Tampa, Florida
823 S. Oregon Ave.

Bridges (Continued)

and $15,048 respectively; 2 rein.-con. girder bridges, one over McFadden Creek, and other over Drainage Creek, F.A. 102, Rd. 62, Contr. 128, Posey Co., also rein.-con. girder bridge over Bayou Creek, and 2 rein.-con. girder spans over Drainage Creek, on F.A. 102, Rd. 62, Posey and Vanderburgh Counties, to Campbell & Hash, Sandborn, $9,216 and $17,125 respectively; 2 steel truss bridges over McFadden Creek, F.A. 102, Rd. 62, Posey Co., to Hay & Sons, Boonville, $27,727; 5 rein.-con girder bridges, on State Project 56, Contr. 133, Pike and Dubois Counties, to A. B. Krempp & Sons, Jasper, $18,665; 3 bridges on F.A. 75, Rd. 52, Tippecanoe Co., to E. F. Apple, 1912 East 34th St., Indianapolis, $17,118; steel truss bridge over First Creek, Greene Co., to Vincennes Bridge Co., Vincennes, $25,506. Grand total $189,901. Noted Mar. 3.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to Zimmerly Bridge Co., Paris, bridges on Route 115, Sect. 104-B, Kankakee Co. $8,232; to Cast Stone Constr. Co., Eau Claire, Wis., on Route 115, Sect. 105-B, $6,450, and on Route 114 Sect. 106-B, $38,-068; both Ford Co.; to Vincennes Bridge Co., Vincennes, Ind., on Route 115, Sect. 106-C, Ford Co. $11,665, on Route 74, Sect. 101-C, Stephenson Co. $15,731, on Route 154, Sect. 108-C, Perry Co. $12,080, and on Route 151, Sect. 110-C, Randolph Co. $6,174; to L. W. Gregory, Lawrenceville, on Route 137, Sect. 101-B, Lawrence Co., $5,957; to Ferguson Constr. Co., 2188 East State St., Rockford, on Route 74, Sect. 101-B, Stephenson Co., $61,443; to F. Kaney Forreston, on Route 89, Sect. 101-B, Lee Co., $12,306; to Missouri Eng. & Constr. Co., Merchants Laclede Bldg., St. Louis, Mo., on Route 4, Sect. F-1, Madison Co. $9,148, and on Route 13, Sect. 28-V, St. Clair Co. $14,656; to J. P. Lyons, Robinson, on Route 12, Sect. 1-V, Lawrence Co., $23,428; to Nelson Constr. Co., Pontiac, on Route 17, Sect. 28-V, Livingston Co., $9,965; to A. P. Munsen, Marion, on Route 91, Sect. 113-B, Peoria Co., $13,340; to Illinois Steel Bridge Co., Jacksonville, on Route 91, Sect. 113-C, Peoria Co., 11,246; to Hartman-Clark Bros., 330 Peoria Life Bldg., Peoria, on Route 24, Sect. 13-B, Tazewell Co., $23,132; to H. R. Cawood, Mt. Vernon, on Route 151, Sect. 110-B, Randolph Co., $20,790; to Parham Constr. Co., East St. Louis, on Route 154, Sect. 108-B, Perry Co., $52,051; to E. Keuhn, East St. Louis, on Route 157, Sect. 119-B, St. Clear Co., $7,428, and to J. L. Wells Co., Rock Island, on Route 180-B, Sect. 101-B, Whiteside Co., $16,065. Grand total $379,355. Noted Jan. 27.

Washington—See "Streets and Roads."

Illinois and Missouri—Cairo Bridge & Terminal Co., H. E. Bovey, pres., 1263 Agnes Pl., Memphis, Tenn., 675 ft. center span, four 450 ft. and two 385 ft. spans and 1,790 ft. span steel and concrete bridge across Mississippi River, between Cairo, Ill. and Birds Point, Mo., substructure, to Missouri Valley Bridge Co., Leavenworth, Kan., and superstructure, to Amer. Bridge Co., 30 Church St., New York City. Engrs. est. $3,100,000. Noted Mar. 17.

Iowa—State Hy. Comn., Ames, bridges on Project B-223, Clayton Co., to Clark, Kearney & Stark, Central City, $13,373; on Project B-373, Warren Co., to Wickham Bridge & Pipe Co., Council Bluffs, $12,200; on Project B-98, Worth Co., to C. A. Holvik, Mason City, $6,682; on Project B-379, Lucas Co., to Ellis & Jordan, Centerville, $54,197; on Project B-334, Dallas Co., Groups A and C, to T. F. Matson, Goodell, $19,615, and Group B, to Snyder & Johnson, Humboldt, $32,622. Grand total

Ia., Des Moines—Polk Co., 1 pony truss and 8 I-beam bridges, also 4 culverts, to Iowa Bridges Co., 19001 Eastern Blvd., $50,826.

Ia., Elkader—Clayton Co., 1 pony truss bridge and 1 box culvert, to A. Olson Constr. Co., Waterloo, $16,510, 11 box culverts, to A. C. Boyle, McGregor, $5,179, 4 box culverts, to T. Fisko, Garber, $4,477, and 4 box culverts, to C. H. Williamson, Elkader, $7,406. Grand total $33,572. Noted Mar. 24.

Ia., Grundy Center—See "Unclassified."

Ia., Muscatine—See "Unclassified."

Ia., Nevada—Story Co., 2 pony truss and 1 high truss bridges and 8 box culverts, to B. J. Cole, Ames, $33,707; one 60 x 24 ft. plate girder bridge and 4 culverts and extensions on Primary Project 323, to Wicker Eng. & Constr. Co., Des Moines, $12,790. Noted Mar. 24.

Ia., Orange City—Sioux Co., 4 pony truss and 1 I-beam bridges, to Noonan-Hyde Co., Watertown, S. D., $31,107, 28 box culverts to C. De Groot, Maurice, $9,190. Rejected bids Mar. 25, 1 I-beam bridge, will probably build some by day labor.

Ia., Vinton—Benton Co., 1 pony truss bridge, to A. Olsen Constr. Co. Waterloo $8,990; 31 box culverts and extensions, to Schaaf & Jacobson, Lake Park, $13,990; also 14 box culverts and extensions, to J. B. Elliott, Independence, $5,644. Grand total $28,624. Noted Mar. 24.

Ia., Waterloo—See "Unclassified."

Dams

Proposed Work

Ark., Ft. Smith—See "Waterworks."

Calif., Los Angeles—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Railways

Proposed Work

Texas — San Antonio & Northwestern R.R., c/o H. Koehler, pres., 214 Victoria St., San Antonio, plans approximately 160 mi. railroad through Medina, Uvalde, Bandera, Real and Edwards Counties, here. $4,000,000.

Colorado—Denver & Rio Grande Western R.R. Co., Equitable Bldg., Denver, A. Ridgeway, ch. engr., soon lets contract improving 8 mi. railroad west of Salida, and 25 mi. between Munturn and Eagan, incl. ballasting, etc. A. C. Shields, genl. mgr.

Bids Desired

Ontario — May 3, by Temiskaming & Northern Ontario R.R., North Bay, S. B. Clement, ch. engr., extending 30 mi. railway from present terminus to Coral Rapids on Abitibi River.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Ill., Beardstown—Dept. Purchases & Constr., State of Illinois, Springfield, takes bids about May 11, 10,000 cu.yd. seawall, 500,000 cu.yd. earth levee along Illinois River, here, for Illinois Div. of Waterways, 950 Transportation Bldg., Chicago, W. F. Mulvihill, supt. $350,000. M. G. Barnes, c/o owner, ch. engr. Noted Apr. 14.

Okla., Gore—State Drainage Bd., Capitol Bldg., Oklahoma City, making preliminary plans straightening portion Illinois River, Sequoyah Co., near here. $45,000. E. E. Blake, Capitol Bldg., Oklahoma City, engr.

Calif., Los Angeles — Los Angeles Co. Flood Control Dist. plans concrete mass type dam, 385 ft. high storing 180,000 acre ft., at Forks site in connection with San Gabriel project, incl. in the main stream control, approximately $125,000, 400,000 cu. yd. excav. $600,000, 550,000 cu.yd. excav. $1,375,000, 55,000 cu.yd. excav. $550,000, etc., total $25,800,000.

Calif., Richvale—Drainage Dist. 100 plans cleaning and enlarging 10,300 lin.ft. old ditch and 9,000 lin.ft. new work. Polk & Robinson, Chico, engrs.

Que., Quebec—Plans concrete retaining wall on Cote Franklin St. $25,000. J. A. Tremblay, Quebec, engr. Noted Feb. 17 under "Unclassified."

Bids Desired

Md., Baltimore—See "Sewers."

Minn., St. Paul—May 3 (extended date), by A. E. Eggert, city purch. agt., 800,000 cu.yd. filling at airport; and 250,000 cu.yd. River Barge Terminal. G. M. Shepard, city engr. Noted Apr. 21.

Calif., La Mesa—May 10, by La Mesa, Lemon Grove Spring Valley Irrigation Dist., Contr. 1, digging 12,500 lin.ft. trench, furnishing and constructing 5,000 lin.ft. 12 in. diam. pipe, also fittings, etc.; Contr. 2, 10,000 ft. ¾ in., 4,500 ft. 1 in. and 2,000 ft. 1¼ in. standard screw, galvanized pipe with couplings, 5,000 ft. 2 in., 3,500 ft. 2½ in., 2,000 ft. 3 in., 1,500 ft. 4 in., and 3,000 ft. 4½ in. standard screw double asphaltum dipped pipe with couplings. T. K. King, La Mesa, engr.

Calif., Oroville — May 4, by R. A. Leonard, secy. Thermalito Irrigation Dist., 7,960 lin.ft. riveted slip joint pipe with fittings such as tees, bends, wye branches, etc., and 3,600 lin.ft. trench, backfill, etc.

Calif., San Francisco—State Bd. Harbor Comn. taking bids 60,000 cu.yd. rock fill for Islais Creek. F. G. White, Ferry Bldg., engr. Noted Mar. 3.

Que., St. Genevieve de Batiscan—Apr. 29, by B. Grandmont, engr., Three Rivers, dredging channel, here, for Pub. Wks. Comn., Ottawa, Ont. $30,000.

Que., Sorel—May 12, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing 191 ft. high level wharf, Richelieu Co., here.

Ont., Aultsville—May 2, by W. O. Sheets, clk. Osnabrock Twp. Farrans Point, constructing 66,300 ft. Hooper Creek Drain, 17,596 ft. Brownell Drain, 32,913 cu.yd. earth, 15,784 cu.yd. hardpan and 673 cu.yd. rock excav. $50,000. D. H. Weir, Winchester, engr.

Contracts Awarded

Md., Baltimore — Bd. Awards, dredging harbor of Baltimore, to Arundel Corp., Pier 4, Light St., $44,420. Noted Mar. 24.

La., St. Martinsville—Pointe Claire-Portage Gravity D. D. 4, A. Berard, pres., 300,-000 cu.yd. dirt excav., to G. B. Ziegler Co., Jennings.

B. C., Steveston—S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., constructing 2,000 ft. Steveston Jetty into Gulf of Georgia, to Vancouver Pile Driving & Contg. Co., Dominion Bldg., Vancouver, $31,505. Noted Mar. 10.

B. C., Vancouver — Vancouver Harbor Comrs., 525 Seymour St., dredging for fill in foundations grain elevator, to North Western Dredging Co., Ltd., 510 Hastings St. W., $30,000. Noted Mar. 10 under "Unclassified."

Streets and Roads

Proposed Work

N. J., Collingswood (Ind. br. Camden)—Plans concrete paving ½ mi. Maple, Pacific and Oriental Aves. $25,000.

N. J., Elizabeth—Bd. Freeholders Union Co. plans widening and resurfacing Newark Ave. $212,000. J. L. Bauer, Elizabeth, engr.

N. J., Moorestown—Bd. Freeholders Burlington Co., Mt. Holly, plans concrete resurfacing 3,700 ft. North Church St. H. B. Smith, Mt. Holly, engr.

Miss., Columbus—Takes bids in spring and summer grading and asphalt on concrete paving portions various streets. $150,000. R. L. Totten, 434 Brown Marx Bldg., Birmingham, Ala., engr.

Miss., Pascagoula—Jackson Co. Road Protection Comn., F. H. Lewis, chn., plans election soon $700,000 bonds, improving 2 mi. paved highway, incl. sidewalks, seawall, etc. F. H. McGowen, Ocean Springs, engr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 3.5 mi. State Road, Federal Aid Project 74, Davidson Co. C. N. Bass, highway comn.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 10 mi. Red Bank-Dayton Rd., Hamilton Co. C. N. Bass, highway comr.

Tenn., Chattanooga—Hamilton Co. and Tennessee Dept. Highways & Pub. Wks., Nashville, made surveys grading and paving (probably concrete) 1.5 mi. Whiteside Pike. To exceed $25,000. C. N. Bass, highway engr.

Tenn., Huntsville—Scott Co. Court and State Dept. Highways & Pub. Wks., Nashville, take bids in early summer improving 18 mi. road from State Road 31 to Campbell Co. line (via Huntsville). C. N. Bass, highway comr.

Tenn., Knoxville—Knox Co., appropriated $135,000 funds, maintenance and repair road system.

Tenn., Union City—Obion Co. election probably in June, $300,000 bonds, improving roads.

Kentucky—State Hy. Dept., Frankfort, rejected bids Mar. 31, surfacing 15.232 mi. Columbia-Burkesville Rd., State Aid Project 51-A, Adair Co. E. N. Todd, highway engr. Noted Mar. 3.

O., Hamilton — Made plans resurfacing Rhea and Central Aves., Main and Ludlow Sts. $157,000. W. Willard, city engr.

O., Portsmouth—Director Pub. Serv. making plans grading, widening, sewer and water connections and sheet asphalt resurfacing 1,950 ft. Gallia St., 34 ft. $33,000. C. Stevenson, City Hall, engr. Noted Nov. 18.

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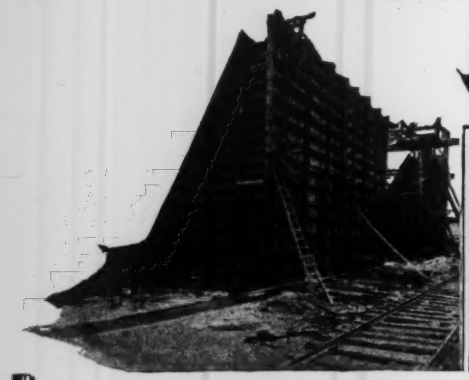

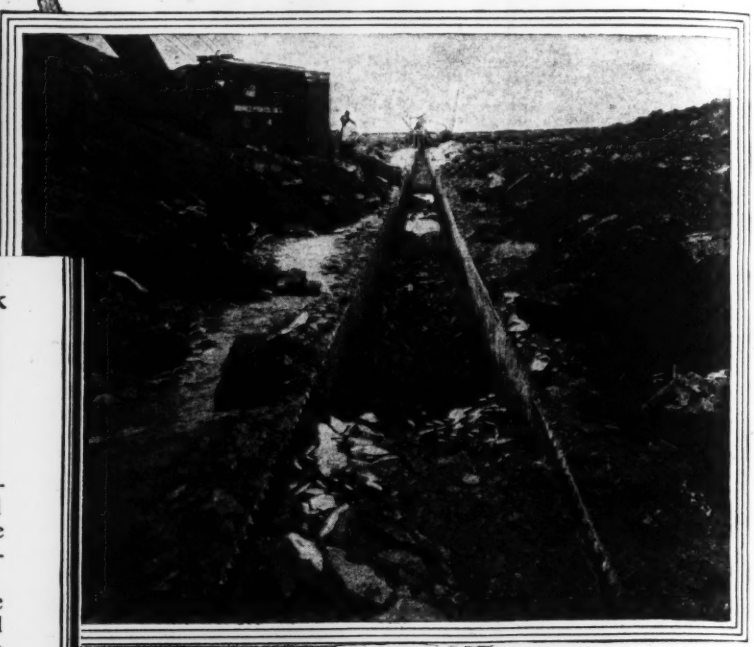

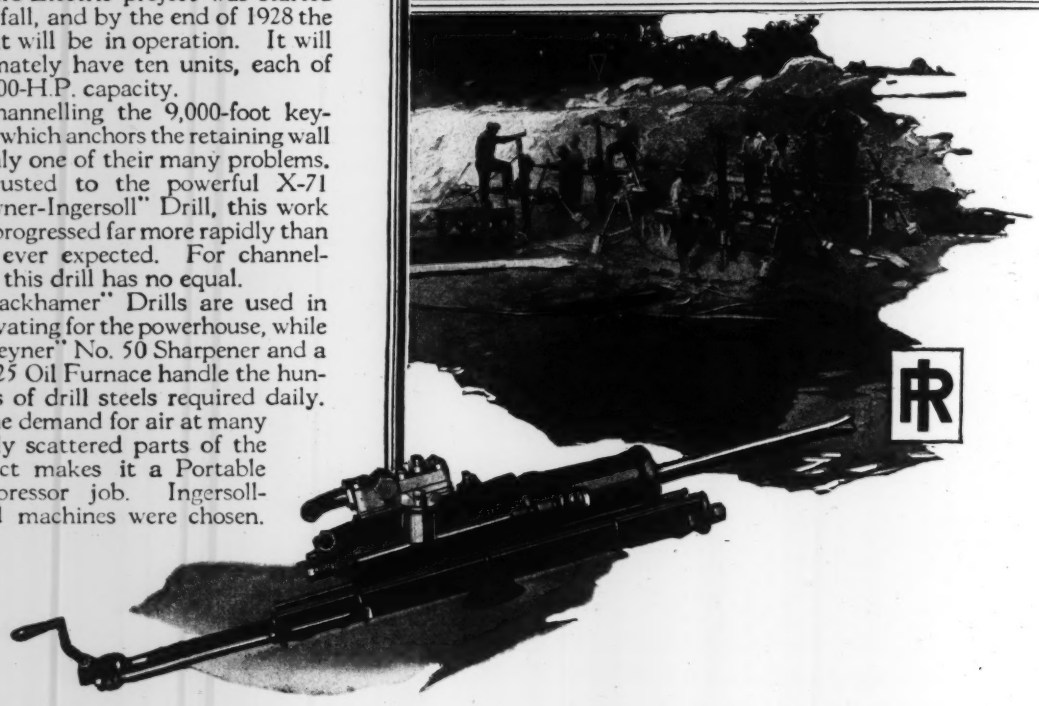

Ingersoll-Rand X-71 Rock Drills Are Playing an Important Part in the $10,000,000 Louisville Hydro-Electric Project

The foresight of a group of engineers and the power of the X-71 "Leyner-Ingersoll" Rock Drill are quickly turning the dreams of a century into a reality.

Actual work on the Louisville Hydro-Electric project was started last fall, and by the end of 1928 the plant will be in operation. It will ultimately have ten units, each of 10,000-H.P. capacity.

Channelling the 9,000-foot keyway which anchors the retaining wall is only one of their many problems. Entrusted to the powerful X-71 "Leyner-Ingersoll" Drill, this work has progressed far more rapidly than was ever expected. For channelling, this drill has no equal.

"Jackhamer" Drills are used in excavating for the powerhouse, while a "Leyner" No. 50 Sharpener and a No. 25 Oil Furnace handle the hundreds of drill steels required daily.

The demand for air at many widely scattered parts of the project makes it a Portable Compressor job. Ingersoll-Rand machines were chosen.

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Streets and Roads (Continued)

Ind., Indianapolis — Bd. Park Comrs. plans resurfacing and reconstructing North Meridian St. $114,000. J. E. Perry, City Hall, engr.

Ind., Laporte—Plans paving Wabash St. $33,935. Address City Clerk, Michigan City.

Ind., Richmond—Wayne Co. plans paving Henley Rd. $30,000. Address Auditor, Richmond.

Ind., Richmond—Wayne Co. plans graveling 50,000 cu.yd. various roads, $40,000. W. O. Jones, Richmond, supt.

Ind., Vincennes—Plans paving Bayou St. $26,183, and Oak St. $21,034. Address City Clerk.

Mich., Detroit—Making plans concrete curbing and one course 8 in. concrete paving 16,280 sq.yd. 7 streets, $65,600. P. A. Fellows, city engr.

Mich., Detroit—Made plans Berea or concrete curbing, and 3½ in. sheet asphalt on 8 in. concrete paving 17,625 sq.yd. Northfield Ave. $72,000. P. A. Fellows, city engr.

Mich., Detroit—Making plans berea or concrete curbing, and 3½ in. sheet asphalt on 8 in. concrete paving 92,800 sq.yd. 9 avenues, Ryan and Bedford Rds. $418,600. P. A. Fellows, city engr.

Mich., Saginaw West Side—Bd. Comrs. Saginaw Co. plans constructing 2 mi. road in Birch Run Twp., Assessment Dist. Rd. 90; bituminous paving 2 mi. road Kochville Twp. Dist. 82, 2 mi. in Thomas Twp. Dist. 109, 2 mi. Spalding Twp. Dist. 111, 2½ mi. Bridgeport Twp. Dist. 113, and 2 mi. Bridgeport and Taymouth Twps. Dist. 117, etc.

Ill., Broadview (mail Bellwood)—Village soon take bids concrete paving 1 mi. 1st Ave. $90,000. Cook Co. (Chicago) pays ½ of cost.

Ill., Brookfield—Village soon take bids concrete paving, etc., 2 mi. 17th Ave. $180,000. Cook Co. (Chicago) pays ½ of cost.

Ill., Franklin Park—Village soon takes bids concrete paving 0.7 mi. 25th Ave. $63,000. Cook Co. (Chicago) pays ½ of cost.

Ill., Maywood—Village soon takes bids concrete paving 4.8 mi. 1st Ave. $432,000. Cook Co. (Chicago) pays ½ of cost.

Ill., Moline—Plans grading, curbing, concrete paving, ornamental lighting, sewers, watermains, etc. in 12 blocks Glen Oaks Park addition, $81,610; also grading, curbing and concrete paving 9 blocks 7th St., 28 ft., $33,412. R. M. Benell, City Hall, engr.

Ill., Niles (mail Chicago)—Village soon takes bids concrete paving 0.7 mi. Harlem Ave. $90,000. Cook Co. (Chicago) pays ½ of cost.

Ill., Park Ridge—Village soon takes bids concrete paving 0.5 mi. Devon Ave. $45,000. Cook Co. (Chicago) pays ½ of cost.

Ill., Wyoming—Stark Co. (Toulon) plans graveling 15 to 20 mi. country roads in Essex Twp., here. $30,000. J. L. Duran, Court House, Toulon, engr.

Wis., North Milwaukee—Plans concrete paving, etc., 50,000 sq.yd. various streets. $25,000. H. C. Webster, 216 West Water St., Milwaukee, engr.

Wis., Shorewood (mail Milwaukee) — Making plans concrete paving, etc., 30,000 sq.yd. Morris Blvd., Atwater Rd., Menlo Ave., Bremen Sts., etc. H. J. Schmitt, Shorewood, engr.

Ia., Burlington—Des Moines Co. plans paving 30 mi. primary roads. C. E. Waterhouse, Burlington, co. engr.

Kan., Abilene—Dickinson Co. soon takes bids grading, etc. 14.491 mi. Federal Aid Project 377-A, 30 ft., also three 20 x 20 ft. slab bridges on same road. C. L. Nicholay, Court House, engr.

Kan., Gove—Gove Co. making preliminary plans grading, etc., 37 mi. Federal Aid Project 382-A and B, 30 ft. G. Hall, Court House, engr.

Kan., Paola—Miami Co. plans fine grading, vitr. brick or concrete paving 5,769 mi. Federal Aid Project 293-A, 18 ft. L. E. Keefer, Paola, co. engr.

Kan., Pratt—Pratt Co. made plans grading, etc., 8.938 mi. Federal Aid Project 341-B, 30 ft., incl. one three 8 x 30 ft. and other four 8 x 30 ft. multiple box span bridges. R. S. Kirk, Court House, engr.

Neb., Wayne—Making preliminary plans grading and alternate types paving 10 blocks various streets.

Mont., Hamilton—Making plans paving approximately 18,500 sq.yd. various streets. $70,000. R. J. Hale, Missoula, engr.

Mo., Joplin—Making plans concrete paving approximately 31,000 sq.yd. various streets. S. P. Ashcraft, City Hall, engr.

Mo., Kansas City—G. Lee, Lee Bldg., plans constructing 10 mi. Boulevard Rd. through 100 acre privately owned property. Private plans.

Mo., St. Charles — Making preliminary plans grading, curbing and concrete paving various streets. $40,000. H. D. Smelser, City Hall, engr.

Mo., Marshfield—Soon takes bids grading, curbing and 6 in. concrete paving, etc. approximately 13,000 sq.yd. Public Square from Crittenden St. south to railroad tracks; also 10,000 sq.yd. Jackson St. $53,000. Russell & Axon, McDaniel Bldg., Springfield, engrs.

Mo., Springfield—Soon takes bids concrete paving, etc., 2,073 sq.yd. Cozy Court; 920 sq.yd. Beach St.; 4,155 sq.yd. Main Ave. between Atlantic and High Sts.; and 2,280 sq.yd. Main Ave. between College and Walnut Sts. S. R. Fisher, City Hall, engr.

Mo., Webb City—Defeated $75,000 bonds, grading and paving various streets. F. R. Hodgdon, City Hall, engr. Noted Mar. 3.

Ark., Prescott—Takes bids early in summer grading, curbing and concrete, rein.-con. or asphalt paving, etc., 15 blocks Paving Dist. 2. A. M. Lund, Home Insurance Bldg., Little Rock, engr.

Tex., Beeville—Bee Co. making preliminary plans asphalt on caliche paving 7½ mi. highway from Skidmore to Bynam on San Patricio Co. line. $110,000. E. L. March, Beeville, engr.

Tex., Colorado—Mitchell Co. making preliminary plans grading, surfacing, etc., 8 mi. highway. $60,000. Address O. B. Zimmerman, Burnet, judge.

Tex., Waxahachie — Ellis Co. making plans hard paving 4.19 mi. Highway 6 from Waxahachie to Sterrett, $76,000; 5.89 mi. Highway 34, Waxahachie to Ray, $105,000; and 4.83 mi. Highway 34 from point 0.87 mi. west of Waxahachie, $85,000. W. A. Spalding, Waxahachie, engr.

Oklahoma—State Hy. Dept., Oklahoma City, making preliminary plans grading, etc. 10 mi. State Road 34, 30 ft., Kingfisher Co. $75,000. J. M. Page, highway engr.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading, etc. 12 mi. State Road 14, Pontotoc Co. $60,000. J. M. Page, highway engr.

Oklahoma—State Hy. Dept., Oklahoma City, making survèys grading etc. 10 mi. State Road 28, Dewey Co., 30 ft. $45,000. J. M. Page, highway engr.

Okla., Bessie—Plans grading, curbing and concrete paving 14,770 sq.yd. Main St. $45,118. C. A. Wood, Stillwater, engr.

Okla., Duke—Making preliminary plans grading and paving 11 blocks Main St., 18-60 ft. $40,000. C. Browne, city clk. Engineer not selected.

Okla., Hollis—Plans grading, curbing and concrete paving 17,400 sq.yd. Dist. 14. $52,730. E. W. Gantt & Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Mason City—Plans 7 in. concrete paving 7 blocks various streets. $28,000. C. H. Stevens, city engr.

Okla., Minco—Plans grading, curbing and concrete paving 13,775 sq.yd. Main St. $41,736. C. A. Wood, Stillwater, engr.

Okla., Norman—Plans grading, curbing and concrete paving 11,780 sq.yd. streets in Dist. 47. $42,411. F. Cobb, Norman, engr.

Okla., Porum—Plans grading, curbing and concrete paving 9,600 sq.yd. Main St. $30,600. J. C. Milliken, Continental Bldg., Oklahoma City, engr.

Okla., Rush Springs—Making preliminary plans grading, curbing and concrete paving 14,775 sq.yd. West Blakeley Ave. $45,000. L. Leverett, mayor, Engineer not selected.

Okla., Seminole—Plans grading, curbing and concrete paving 9,400 sq.yd. Oak, Evans and University Sts. $38,740. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Snyder—Plans grading, curbing and concrete paving 9,700 sq.yd. Dist. 2, $31,226. E. W. Gantt, 1116 West Main St., Oklahoma City, engr.

Okla., Tulsa—Plans grading, curbing and sheet asphalt paving 17,400 sq.yd. East 15th St. $38,240. C. Schultz, city engr.

Okla., Tulsa—Plans grading, curbing and sheet asphalt paving 8,440 sq.yd. streets in Dist. 777. $35,384. C. Schultz, City Hall, engr.

Wash., Seattle — Comrs. King Co. takes bids about May 1, grading and concrete paving approximately 1.5 mi. Kent-Des Moines Highway, $40,000; and 2.6 mi. Benson Rd., $75,000. D. Evans, Seattle, engr. Noted Mar. 3.

Calif., El Cerrito—Made plans grading, resurfacing 144,397 sq.ft. and 2 in. asphaltic macadam on 5 in. water-bound macadam paving 216,485 sq.ft. San Pablo Ave. To exceed $50,000. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Escondido—Plans curbing, concrete guttering and 4 in. macadam paving, etc., Ohio Ave., etc. $45,000 or more. D. C. Witt, city engr.

Calif., Oakland — Made plans grading, walks and oil macadam paving, etc., 70,537 sq.ft. portions Fruitvale Ave. W. W. Harmon, city engr.

Calif., Ontario — Plans paving, etc. 9th St. $30,000. O. S. Roen, city engr.

Calif., Salinas—Monterey Co. plans paving and widening, etc., Salinas-Monterey Rd. To exceed $25,000. H. Cozzens, Salinas, co. surv.

Calif., San Diego—Plans grading, curbing, sidewalks and 1½ in. asphaltic concrete on 5 in. concrete paving 69,895 sq.yd. Texas, Hamilton Sts., etc.; 5 in. concrete paving, etc., 100,176 sq.yd. all streets in North Shore Highlands, 2 in. asphaltic concrete on 6 in. concrete, etc., paving 36,429 sq.yd. La Jalla Blvd.; also curbing, sidewalks and 6 in. concrete paving 35,594 sq.yd. 27th St. and Bway. F. A. Rhodes, City Hall, engr.

Calif., San Diego—Common Council plans grading, curbing, walks and 6 in. concrete paving 320,349 sq.ft. 27th St. and Bway. F. A. Rhodes, city engr.

Calif., San Luis Obispo—San Luis Obispo Co. plans grading and graveling roadway between Div. C, Pomeroys re-sub-division and Div. A, same tract, etc. To exceed $35,000.

Calif., Santa Barbara — Santa Barbara Co. plans constructing approximately 12 mi. road along Santa Ynez River from San Marcos Rd., to Santa Ynez Valley paved road system.

Calif., Santa Cruz—Made plans grading 28,899 lin.ft. 6- to 12-in. sewers, and concrete paving, etc., 9,888 sq.ft. Bay St., etc. J. K. James, city engr.

Calif., South Pasadena (Ind. br. Pasadena)—City Clerk soon takes bids 100,000 sq.ft. 4 in. asphaltic concrete and approximately 25,500 sq.ft. concrete paving, etc. Oak Lawn Ave. Noted Apr. 14.

Que., Cap de la Madeleine—Making plans 68,700 ft. concrete sidewalks in all built up sections of city. $100,000. R. Morressette, Cap de la Madeleine, engr.

Que., Cap de la Madeleine—Plans 60,000 ft. concrete sidewalks on various streets, 4 ft. $75,000. R. Morrissette, Cap de la Madeleine, engr.

Que., Quebec—Council plans concrete, amiesite and macadam paving 10 mi. various streets, 40 ft. $200,000. J. A. Tremblay, engr.

Ont., Brampton—Peel Co. plans concrete paving 3 mi. Mississauga Rd. $75,000. N. L. Powell, County Bldgs., engr.

Ont., Essex—Essex Co. Council making plans concrete paving 6½ mi. Harrow, Front, and Rochester Rds. $160,000. W. H. Knister, County Bldgs., engr.

Ont., Hamilton—Council Wentworth Co. plans waterbound macadam paving 5 mi., bituminous concrete paving 2½ mi., and concrete paving ¼ mi. various roads; also 6 small bridges. $900,000. A. Lumsden, Court House, engr. Noted Mar. 31.

Ont., St. Catherines—Lincoln Co. plans concrete paving various roads. $120,000. Rutherford & Smith, 24 Queen St., engrs.

Ont., Sarnia—City Council plans asphalt paving Lochiel, Victoria and Wellington Sts. $85,000. M. D. Stewart, City Hall, engr.

Bids Desired

Vermont — Apr. 29, by Bd. Highways, Montpelier, rein.-con. paving 0.7 mi. highway in Bennington, highway in Castleton and West Rutland, 3.6 mi. highway in Windsor and Weatherfield, and 5.9 mi. highway in Derby; bituminous macadam paving 4.4 mi. highway in Middlebury and New Haven, 1.8 mi. highway in Swanton and Highgate, and 4.6 mi. highway in Danville. H. E. Sargent, ch. engr.

Massachusets — May 3, by Dept. Pub. Wks., Boston, bituminous macadam paving 5,779 ft. highway in Ashburnham; 2,800 ft. highway, Freetown; 5,715 ft. highway, Milton, and 5,004 ft. highway, Hamilton and Wenham. W. F. Williams, comr.

Mass., Boston — May 3, by Dept. Pub. Wks., sheet asphalt or bitulithic paving various streets in Wards 15, 16 and 18. To exceed $25,000. J. H. Sullivan, comr.

Mass., Melrose (Ind. br. Boston)—Apr. 29, by Pub. Wks. Dept., granolithic sidewalks on various streets during the year. $30,000 appropriated. F. Emerson, c/o owners, engr. Noted Mar. 24.

Conn., Hartford—May 3, by Bd. Contr. & Supply, Municipal Bldg., grading and sheet asphalt on 6- to 8-in. concrete paving 20,125 sq.yd. Elizabeth St. and Franklin Ave.; sheet asphalt paving 7,415 sq.yd. Greenfield and Woodland Sts., also 25,000 sq.yd. various streets. R. N. Clark, city engr.

New York—May 13, by A. W. Brandt, comr. Highways, Dept. Pub. Wks., Albany, reconstructing roads in Chautauqua, Genesee, Niagara, Oneida, Wayne, Nassau, Jefferson, Madison, Monroe, Schoharie, Tompkins and Westchester Counties; adv. adv. E. N.-R. Apr. 28.

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Streets and Roads (Continued)

N. Y., Brooklyn—May 4, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, curbing and flagging Bedford Ave. and Essex St.; granite on concrete paving 39th St.; grading, curbing, and sheet asphalt paving, etc., Avenues L and O, Albany, Battery, Bedford, Brooklyn, Gravesend, and Stone Aves., Bleeker, East 5th, East 12th, East 39th, East 49th, 51st and 62nd Sts.; asphalt paving, etc., Delamere Pl., Avenue M, 14th Ave., East 3rd, East 32nd and 84th Sts.

N. Y., Buffalo—Apr. 29, by J. J. Love, comr. Pub. Wks., Municipal Bldg., repaving Asbury Alley, Brewster Pl., Hodge and Cornwall Aves., Stevenson, Franklin, Malsch, Newburgh, Hampshire, Holly, and Galloway Sts. Noted Apr. 14.

N. Y., Long Island City—May 5, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks and granite block on sand paving Creek St.

N. Y., New York—May 6, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, sidewalks, etc., on Bronxdale Ave., and Campbell Dr.; grading Eastern Blvd. (Ludlow Ave.); asphalt block on concrete repaving University Ave.; bituminous concrete on concrete paving Sherman Ave.; and sheet asphalt on concrete paving East 172nd St. Bronx River and Morris Aves.

N. Y., St. George—May 4, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Canal St. and College Ave.

N. J., Lakewood—May 3, by Bd. Freeholders Ocean Co., macadam paving 68,865 sq.yd. Lakewood-New Egypt Rd. J. M. Abbott, Toms River, co. engr.

N. J., New Brunswick—May 10, by City Comn., paving several streets. $82,000. A. Atkinson, City Hall, engr. Noted Apr. 21.

N. J., Plainfield—May 16, by Common Council, City Hall, grading, curbing, guttering, sidewalks and sheet asphalt on 6 in. concrete paving 2,600 sq.yd. East 2nd St., from Watchung to Roosevelt Aves. A. W. Vars, city engr.; adv. E. N.-R. Apr. 28.

Pa., Phila.—May 10, by Dept. Pub. Wks., Bureau of Highways, grading and concrete paving 11,200 sq.yd. City Ave. between Haverford and Arch Sts. G. H. Biles, dir.

Maryland—May 3, by State Roads Comn., 601 Garrett Bldg., Baltimore, concrete shoulders on 29.54 mi. roads in Prince George, Frederick, Baltimore and Anne Arundel Counties. J. N. Mackall, chn.; adv. E. N.-R. Apr. 28.

Md., Baltimore—May 4, by Bd. Awards, sheet asphalt paving 20,100 sq.yd. streets listed in Contr. 404; and concrete paving 16,800 sq.yd. streets listed in Contr. 405. S. Purcell, City Hall, highways engr.

Md., Baltimore—May 4, by Bd. Awards, concrete footways, Contr. 98. S. Purcell, City Hall, highways engr.

N. C., Warrenton—May 3, by Mayor, tar and asphalt paving 46,000 sq.yd. and seal coat on asphalt paving 11,000 sq.yd. various streets. Jennette-Boyd Engineers, Henderson, engrs.

South Carolina—See "Bridges."

Florida—May 12, by State Road Dept., Tallahasee **(P. means Project and R. Road)** surface treating on 8 in. Florida lime rock paving 13.81 mi. P. 49, R. 4, Flagler Co.; also concrete or asphaltic surfacing on 8 in. Florida lime rock paving 5.52 mi. P. 691 and 7.38 mi. P. 692, R. 4, Martin and St. Lucie Counties. J. L. Cresap, state highway engr.

Ala., Birmingham — June 2, by City Comn., curbing, guttering, sidewalks and 6 in. concrete paving 4 blocks 25th St., Ensley, 26 ft., $18,500; and 2 in. asphaltic concrete on 5 in. concrete paving, etc. 6 blocks 17th St., Ensley, 30 ft., $26,500. A. J. Hawkins, city engr.

Miss., Ackerman—May 6, by Choctaw Co. Bd., grading, etc. 6 mi. Ackerman-Starkville Highway, Federal Aid Project 188, 30 ft. H. C. Dietzer, Jackson, engr.

Miss., Oxford—May 2 (extended date), by Bd. Supervs. Lafayete Co., improving 2.065 mi. Federal Aid Project 66-D. H. C. Dietzer, Jackson, engr. Noted Apr. 14.

Kentucky—May 27, by State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project)**, grading, etc., 30.6 mi. Columbia-Neelys Ferry Rd., S. A. P. 151-A, B and C, Adair and Cumberland Counties, 5.3 mi. Florence-Warsaw Rd., F. A. P. 168-A, Boone Co., 10 mi. Mayfield-Fancyfarm-Bardwell Rd., S. A. P. 1-A, Graves Co., 8.7 mi. Mayfield-Benton Rd., S. A. P. 1-B, Graves Co., 4.4 mi. Munfordsville-Elizabethtown Rd., F. A. P. 169-A, and 1.8 mi. same road, F. A. P. 169-B, Hart Co., 8.7 mi. New Castle-Frankfort Rd., S. A. P. 64½ Henry and Shelby Counties, 7.7 mi. Richmond-Winchester Rd., F. A. P. 167-A, Madison Co., and 4.5 mi. Edmonton-Greensburg Rd., S. A. P. 1-B, Metcalf Co.; surfacing 1.9 mi. Owensboro-Fordsville Rd., S. A. P. 12-B, Daviess Co., 3 mi. Fulton-Clinton Rd., F. A. P. 131-F, Fulton Co., 2.9 mi. Vine Grove-Radcliffe Rd., S. A. P. 8-B, Hardin Co., and 4.9 mi. Prestonsburg-Paintsville R., F. A. P. 133-C, 77 and 76, Johnson Co.; grading, surfacing, etc., 4.9 mi. Nortonville-Greenville Rd., F. A. P. 164-A and B, Hopkins and Muhlenberg Counties; also reconstructing 9.5 mi. Liberty-Russell Springs Rd., S. A. P. 23-C, Casey Co. E. N. Todd, highway engr.

O., Cleveland — May 4, by Bd. Comrs. Cuyahoga Co. grading, curbing, guttering, and vitr. brick, granite block or concrete paving West 25th St., $225,900; also grading, curbing, guttering and vitr. brick, granite block or sheet asphalt paving 27,700 sq.yd. Wagar Rd., $198,700. F. Lander, Court House, engr.

O., Columbus — May 4, by Bd. Comrs. Franklin Co., O. Moore, clk., grading and waterbound macadam paving Kropp Rd., Pleasant Twp. $65,825. C. C. Lattimer, Court House, co. surv. Noted Mar. 17.

O., Cuyahoga Falls — May 9, by D. H. Miller, dir. Pub. Serv., grading, curbing and 1½ x 1½ in. sheet asphalt paving, etc., 7,800 sq.yd. Grant Ave. and South 26th St., 11,000 sq.yd. Wetmore St. and Oakwood Ave., 5,800 sq.yd. Oak Park Blvd., also 6,000 sq. yd. South Front St. from Chestnut St. to Gorge Hill, and South Front St. (west side only), between Portage and Broad Sts.; and constructing 1,930 lin.ft. 8 and 10 in. sewers and 1,630 lin.ft. c.i. watermains, etc., in Russell and Talbot Aves.

O., Euclid—May 2, by City, paving Fuller Ave., and sidewalks on Bliss and Hadden Rds. $40,000. F. A. Thomas, Town Hall, engr.

O., Lisbon—May 2, by Comrs. Columbiana Co., grading 212,000 cu.yd. East Liverpool-East Palestine Rd. $50,000-$60,000. L. C. Kirk, Lisbon, engr. Noted Apr. 7.

Ind., Anderson—May 25, by Comrs. Madison Co., concrete paving 1 mi. Ernest Watkins Rd., 30 ft. $28,000. A. Steele, Court House, engr.

Ind., Angola—May 2, by Comrs. Steuben Co., grading and graveling 8,540 ft. Frank L. Adams et al., Rd., Pleasant Twp., $10,662; 9,942 ft. C. J. Clossen, et al., Rd. $11,290, and 4,268 ft. I. D. Deeler, et al., Rd. $4,356, both Steuben Twp. F. O. Watkins, Angola, aud.

Ind., Fowler—May 2, by Comrs. Benton Co., grading and graveling 15,200 ft. Dan Messner et al Rd., Oak Grove Twp. $26,757. S. N. Geary, Fowler, aud.

Ind., Goshen—May 2, by Comrs. Elkhart Co. grading and graveling 10,575 ft. Q-2 Rd., Elkhart Twp. $15,000, and 10,439 ft. O-2 Rd., Olive-Locke Twps. $16,000; grading and concrete paving 906 ft. K-4 Rd. $4,000, and 480.5 ft.. V-3 $2,439, both Concord Twp. O. B. Weaver, Goshen, co. engr.

Ind., Monticello—May 3, by Comrs. White Co., constructing Chester Wickersham et al. Rd. $75,000. C. Scott, Monticello, aud.

Ind., Sullivan—May 2, by Comrs. Sullivan Co., constructing public highways in Jefferson Twp. $30,077. A. M. Carter, Sullivan, aud.

Ind., Winamac—May 3, by Comrs. Pulaski Co., grading and graveling 15,900 ft. W. H. Ambler et al. Rd., Monroe Twp.; and 2⅜ mi. Dan Roberson et al Rd., Harrison Twp. R. E. Wilson, Winamac, aud.

Michigan — May 3, by R. W. Roberts, resident engr., Saginaw, constructing shoulders 5.882 mi. T. L. 10-60, Project 025-5 Contr. 2, Genesee Co., for State Hy. Dept., Lansing.

Mich., Holland — May 4, by Common Council at office O. Peterson, city clk., macadam and asphalt paving 51,160 sq.yd. various streets.

Ill., Niles Center — May 3, by Village, rein.-con. paving various streets in Devonshire Manor Subdivision. $311,300. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Wisconsin—See 'Contracts Awarded."

Wisconsin—May 2, by State Hy. Comn., 1st Natl. Bank Bldg., Superior, grading and concrete paving 13,706 sq.yd. Arrowhead Bridge Rd., State Aid Project 8326, Douglas Co. H. J. Kuelling, state engr. J. R. McLean, div. engr.

Mich., Allegan — May 4, by Comrs. Allegan Co., graveling 4.966 mi. Cheshire Center Rd., Cheshire Twp.; and 1.7582 mi. East Dorr Rd., Dorr Twp.; 0.9942 mi. Kibbie Rd., Casco Twp.; and 1.264 mi. Pine Lake Rd. Gun Plains Twp.

Wis., Appleton — May 3, by Outagamie Co. Com., A. G. Brusewitz, comr., grading and concrete paving 34,583 sq.yd. Greenville-Stephenville Rd., S. T. H. 76, State Job 3144. O. C. Rollman, div. engr.

Wis., Madison — May 5, by Hy. Comm. Dane Co., J. R. Caldwell, comr., and F. W. Sawtelle, highway engr., at Court House, **(T.H. means Trunk Highway, C.T.H. County Trunk Highway and S.T.H. State Trunk Highway)**, grading and surfacing 1.85 mi. T.H. 73 Deerfield Twp., 3 mi. Cottage Grove-McFarland Rd. Cottage Grove Twp., 2.17 mi. Lodi-Springfield Corners Rd. Springfield Corners Twp., 1.02 mi. C.T.H. 5 Cross Plains Twp., 1.05 mi. S.T.H. 78 Blue Mounds Twp, 4 mi. S.T.H. 73 Medina Twp. and Village of Marshall, 4 mi. S.T.H. 73 York Twp., 3 mi. C.T.H. W. Albion Twp. and Pleasant Springs, 2.5 mi. Clifton Rd. Roxbury Twp., 3 mi. Old S.T.H. 12 Roxbury Twp., 2.5 mi. C.T. S. Springfield Twp. and 15.3 mi. roads York Twp.; also constructing Holman Bridge, on London-Deerfield Rd., Deerfield Twp.

Iowa—May 3, by State Hy. Comn., Ames, graveling portion U. S. Highway 71, Carroll Co.; graveling or crushed stone surfacing portion Maquoketa Rd., Jackson Co.; grading 1.45 mi. road west of Leon Decatur Co., 0.539 mi. U. S. Highway 34, Henry Co., and 5.45 mi. Primary Road 1, Washington Co. R. F. White, highway engr.

Ia., Aurelia—May 4, by City, grading graveling, etc., 50 blocks various streets. Former bids rejected. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted Apr. 7.

Minn., St. Paul—May 3, by A. E. Eggert, city purch. agt., grading, curbing and 7 in. rein.-con. paving 31,407 sq.yd. Montreal Ave. $90,000. G. M. Shepard, city engr.

Kan., Fredonia — May 13 (extended date), by Clerk Fredonia Co. grading, surfacing, etc. 6.882 mi. Federal Aid Project 373-A, 28 ft. E. C. Baity, Fredonia, co. engr. Noted Apr. 21.

Kan., Leavenworth — May 20, by Clerk Leavenworth Co., improving 7.972 mi. Federal Aid Project 268-F, 132,562 cu.yd excav., 3,860 ft. guard fence, 9,960 ft. hedge, 66,096 lb. reinforcing, etc.; and 1.067 mi. same road Sect. I, 41,870 cu.yd excav., 1,710 ft. guard fence, 1,295 ft. hedge, 39,069 lb. reinforcing, etc. J. E. McCorkle, co. engr. Noted Feb. 3.

South Dakota — May 3, by State Hy. Comn., Pierre **(F.A.P. means Federal Aid Project and S.P. State Project)**, grading 2.04 mi. F.A.P. 12 Minnehaha Co., 10.93 mi. F.A.P. 95-D Faulk Co., 13.6 mi. F.A.P. 173-D Edmunds Co, 4.94 mi. F.A.P. 177-C Jackson Co., 15.14 mi. F.A.P. 192-B McPherson Co., and 12.02 mi. F.A.P. 201-B Hyde Co.; grading, bridging, etc. 11.93 mi. F.A.P. 213-A and 11.98 mi. F.A.P. 213-B Spink Co., 14.99 mi. F.A.P. 213-C Brown Co., 18.61 mi. F.A.P. 217-B Butte and Meade Counties, 6.65 mi. F.A.P. 220-B Custer and Fall River Counties, and 12 mi. S.P. 147 Beadle Co.; graveling, etc. 12.67 mi. F.A.P. 185-B Jackson Co., 17.6 mi. F.A.P. 185-F Jones Co., 2 mi. F.A.P. 187-B, and 9.8 mi. F.A.P. 187-C, 5.8 mi. F.A.P. 189-B, and 14.21 mi. F.A.P. 203-A Charles Mix Co., also 9.53 mi. F.A.P. 206-A and 19.5 mi. S.P. 118 Butte Co. O. H. Hetle, ch. engr.

South Dakota—May 3, by State Hy. Dept., Pierre, grading 17.54 mi. Federal Aid Project 207 B Minnehaha Co., and 6.73 mi. Federal Aid Project 219B, Walworth Co.; headwalls, culverts, etc. on State Aid Project 146, Day Co. and bridges on Federal Aid Project 207B, Minnehaha Co. J. C. Botterman, Pierre, engr.

Mo., St. Louis — May 10, by Bd. Pub. Serv., 208 City Hall, **(C.B. means City Block)** asphaltic concrete paving 1,705 sq.yd. Shirley Pl. $12,800, 1,475 sq.yd. Richard Pl. $11,240, and 1,443 sq.yd. Goethe St. $11,000; warrenite concrete paving 2,690 sq.yd. Woodland Ave., $21,880; also grading, concrete paving, etc. alleys in C. B. 985 $3,000, C. B. 1287 $2,500, C. B. 2847 $3,240, C. B. 2857 $1,450, C. B. 3033 $2,600, C. B. 3392 $2,900, C. B. 4154 $4,200, C. B. 4571 $8,200, C. B. 5090 $4,960, C. B. 5122 $4,320, C. B. 5252 $2,700, C. B. 5273 $2,850, C. B. 5320 $3,480, C. B. 5354 $1,250, C. B. 5480 $3,240, C. B. 5747 $5,040, and C. B. 5936 $2,700. W. W. Horner, 300 City Hall, engr.

Arkansas—May 3, by State Hy Dept., Little Rock, clearing, grubbing, grading, concrete paving, etc., 14,968 sq.yd. Hot Springs-Malvern Rd., Federal Aid Project 235-A, Impvt. Dist. 8, Garland Co. O. L. Hemphill, ch. engr. Noted May 26, 1926.

Tex., San Benito—May 4, by J. S. Brown, mayor, curbing, sidewalks and 6 in. concrete paving 5,700 sq.yd. various streets.

Okla., Ada—Apr. 26, by L. Daggs, city clk., concrete paving 20,440 sq.yd. Dist. 20. $41,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

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Streets and Roads (Continued)

Okla., Holdenville—May 12, by J. Kirk, clk. Hughes Co., concrete paving 87,490 sq.yd. State Road 3. $227,000. R. Grace, Holdenville, engr.

Ore., Oregon City—May 4, by Comrs. Clackamas Co., Court House, grading and concrete paving 2.5 mi. Market Rd. from Oregon City to Viola. $25,000. D. T. Meldrum, Oregon City, co. engr.

Ore., Portland—May 4, by Comrs. Multnomah Co., Court House, paving 50,000 sq. yd. Mt. Hood Loop of Columbia River Highway. $25,000. G. W. Buck, Court House, engr.

Wash., Olympia — May 9, by Comrs. Thurston Co., grading and graveling 5.2 mi. Permanent Highway 9-A between Olympia and Yelm. N. R. McKay, Olympia, co. engr.

Calif., Los Angeles — May 9, by Bd. Supervs. Los Angeles Co., grading and oil and rock surfacing, etc., 88,290 sq.ft. Vermont Ave. $154,595. G. W. Jones, Hall of Records, engr.

Calif., Mountain View—City Trustees taking bids grading, surfacing, and 4 in. Warrenite-bitulithic paving, etc. California and Bush Sts., etc. C. C. Kennedy, Call Bldg., San Francisco, engr.

Calif., San Diego — May 9, by A. H. Wright, city clk., grading, curbing and 5 in. concrete paving 901,587 sq.ft. Diamond and Missouri Sts.; also 6 in. concrete paving 230,160 sq.ft. Loring St. and Wilbur Ave., etc. F. A. Rhodes, city engr.

Ont., Penetanguishene—May 3, by W. H. Hewson, clk. concrete curbing, guttering, and asphaltic macadam paving 10,000 sq.yd. main streets. $40,000. W. A. Spellman, 698 King St. W. Kitchener, engr.

B. C., Slocan — May 2, by Dept. Pub. Wks., Victoria, clearing and grading 8½ mi. new highway, here, 16 ft. $80,000. P. Philip, Dept. Pub. Wks., Victoria, engr.

Contracts Awarded

New Hampshire—State Hy. Dept., Concord, **(e. e. means engrs. est.)**, grading and concrete paving 12,300 sq.yd. Rockingham Rd., Rockingham Co., to B. Perini & Sons Co., Ashland, Mass., $33,970 e. e. $46,000; grading and 3 in. gravel surfacing 2,529 cu.yd. Gorham Hill Rd., also grading and bituminous macadam paving 9,764 sq.yd. Gorham Hill Rd., Coos Co., to W. H. Hinman, Midway, $30,903 and $28,553 respectively, e. e. $52,000 and $34,000 respectively. Grand total $93,426. Noted Apr. 7 and 14.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 13,034 ft. highway in Kingston and Duxbury, to Lawton Constr. Co., Providence, R. I., $117,323; and 32,912 ft. highway in Becket and Otis, to Perrini & Son, Ashland, Mass., $200,393. Noted Mar. 31 and Apr. 7.

Mass., Boston—Dept. Pub. Wks., J. H. Sullivan, comr., bituminous macadam paving various streets, to M. F. Gaddis, 6 Beacon St., $93,350. Noted Mar. 24.

Mass., Boston—Dept. Pub. Wks., recut granite block paving Dock and Faneuil Hall Sqs., to Coleman Bros., 245 State St., $27,286. Noted Apr. 14.

Mass., Winthrop — City, artificial stone sidewalks on various streets, to F. J. McQueeney, 9 Atlantic St., Winthrop. Engrs. est. $25,000.

Conn., Manchester — Selectman Office, Municipal Bldg., South Manchester, J. H. Hyde, secy., concrete or granite curbing, guttering, walks, etc., on various streets, to Ahern Bros., 14 Bond St., $37,843. Engrs. est. $40,000. Noted Apr. 7.

New York—A. W. Brandt, comr. Highways, Albany **(e.e. means engineers estimate)**, reconstructing 5.32 mi. Repair Contr. 1575, Highway 62, West Henrietta-Rochester Rd., Monroe Co., to M. J. McMahon, Du Bois, Pa., $212,082 e.e. $286,358; 6.15 mi. Highway 1751, Tremaines Corners-Barnes Corners-Worth Corners Rd., Jefferson and Lewis Counties, to Van Deusen Lumber Corp., Loan Assn. Bldg., Corning, $293,966 e.e. $341,848; 3.32 mi. Repair Contr. 1571, Highway 5551, Duanesburg-Quaker Street Rd., Schenectady Co., to Malloy Constr. Co., 24 Henry St., Schenectady, $151,536 e.e. $189,908; 0.95 mi. Repair Contr. 1576, Highway 5243, Sanitaria Springs-Harpursville Rd., 210 Harpursville, 5200 Nineveh-Afton Rd., 209 Nineveh, Broome Co., to M. Barber, Binghamton, $66,715 e.e. $82,386; 9.03 mi. Highway 8275, Franklinville-Farmersville Station Rd., Cattaraugus Co., to H. W. Patterson, 80 Genesee St., Hornell, $398,296 e.e. $554,040. Grand total $1,122,595. Noted Mar. 24.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to Grimm Contg. Co., 170 McKinley Ave., grading, etc. Brooklyn Ave. $4,196, East 43rd St. $2,675, and Walsh Court $1,769; to F. DeVito, 158 17th St., 9th Ave. $1,944; to Sicilian Asphalt Paving Co., 41 Park Row, New York City, sheet asphalt paving various streets $32,840; and to F. J. Gallagher, 490 Park Pl., granite block paving Schenectady Ave. $7,960, and Empire Blvd. $12,675. Grand total $64,059. Noted Apr. 7.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sheet asphalt on concrete paving 209th St., to C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd., $21,680; and asphalt block paving East 164th St., to L. DiMinna, Inc., 2366 Lorilard Ave., $25,407. Noted Apr. 7.

N. Y., St. George — J. S. Lynch, pres. Richmond Boro, Boro Hall, concrete repaving Clove Rd., to Vanbro Constr. Corp., 20 Elizabeth St., Port Richmond, $8,131; and Maryland Ave., to R. Lauria, Inc., 151 Bway., West New Brighton, $8,346. Noted Apr. 7.

N. J., Bridgeton—Bd. Freeholders Cumberland Co., concrete paving 6 mi. Mauricetown-Port Norris Rd., to Wall, Tozer & Wall, Millville, $264,403. Noted Mar. 31.

N. J., Collingswood (Ind. br. Camden)—Paving Edison, Coolidge, and Dill Aves., to W. Eisenberg, Smith-Austermuhl Bldg., Camden, $99,734.

N. J., Elizabeth—Bd. Wks., paving 5 streets, to Standard Bitulithic Co., foot Brill St., Newark, $40,404; 3 streets, to J. B. Gilligan-Casey Co., 972 Bird St., Newark, $38,330; and 2 streets, to Elizabeth Paving Co., 715 Elizabeth Ave., $31,807. Grand total $110,541.

N. J., Glassboro — Bd. Freeholders Gloucester Co. (Woodbury), vibrolithic paving Main St., here, to S. G. Corson, Marmora, $36,031.

Pa., Pittsburgh—City **(e. e. means engrs. est.)**, grading, paving, etc., Oberlin St. between Lemington Ave. and Sprague St., to McCrady Bros. Co., Braddock, $32,248 e. e. $35,000, Bellaire Ave. between Glenarm Ave. and Whited St., to Minsinger Co., Prospect St., $25,432 e. e. $27,000, and Okey Ave. between Noblestown Rd. and Steuben St., to Nardulli & Sons, 608 Larimer Ave. $35,325 e. e. $40,000; repaving Brighton Rd., to T. Cronin Co., South 18th St. $32,-642 e. e. $25,000, East and Forbes Sts., to Booth & Flinn, Ltd., 1942 Forbes St. $48,-964 and $58,073 respectively e. e. $46,000 and $48,000 respectively. Grand total $232,684.

Md., Baltimore — Bd. Awards, concrete paving 8,400 sq.yd. streets listed Contr. 391, to Arundel Contg. Co., Knickerbocker Bldg. $19,228, and 13,520 sq.yd. streets listed Contr. 394, to P. Reddington & Son, 2 East Lexington St. $28,345; sheet asphalt paving 15,260 sq.yd. streets listed Contr. 393, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $72,683. Grand total $120,256. Noted Mar. 31.

W. Va., Morgantown—Monongalia Co., to J. Cain, Elkins, concrete surfacing 1.12 mi. Morgantown-Fairmont Pike, Project 7, $29,-154; to Monongalia Constr. Co., Fairmont, 1.46 mi. Brady-Lowesville Rd., Project 6 $48,252, 2.18 mi. Flickersville Rd., Project 2 $85,639, and 5.19 mi. Flickersville Rd., Project 1 $166,661; to Stein, Gersel & Stein, Columbus, O. 3.26 mi. Arnettsville-Lowesville Rd., Project 5 $96,640, 1.06 mi. Morgantown-Fairmont Pike, Project 4 $28,-819, and 1.54 mi. Morgantown-Fairmont Rd., Project 3 $38,970. Grand total $494,-135. Noted Mar. 17.

North Carolina — State Hy. Dept., Raleigh, to J. F. Mulligan Constr. Co., North Wilkesboro, grading, etc. 7.59 mi. Project 333, Columbus Co. $56,665, 14.52 mi. Project 144, Halifax Co. $77,893, 4.3 mi. Project 7250 Caldwell Co. $36,839, to C. A. Ragland, Louisburg, 16.11 mi. Project 336, Cumberland Co. $78,056, to Noll Constr. Co., Charlotte, 10.51 mi. Project 3980, Robeson Co. $157,712, to Griffin & Perry, Bailey, 10.7 mi. Project 1991, Wilson Co. $40,055, to L. J. Smith, Asheville, 4.14 mi. Project 948, Haywood Co. $33,226; to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, 2 mi. Project 5780, Randolph Co. $59,019; to R. H. Wright & Son, Charlotte, grading and concrete paving 9.69 mi. Project 2790, Sampson Co. $233,987, 8.37 mi. Project 620, Cabarrus Co. $206,607, to Ziegler Bros., Greensboro, 12.21 mi. Project 401, Chatham Co. $330,562, to W. F. Bowe, Jr., 541 Broad St., Augusta, Ga., 9.81 mi. Project 548, Hoke Co. $230,182, to Highway Eng. & Constr. Co., Selbyville, Del., 4.764 mi. Project 498, Warren Co. $120,070, to R. C. Stevens, Asheville, 3.45 mi. Project 9090, Buncombe Co. $86,729, to Pennell & Harley, Inc., Spartanburg, S. C., 12.83 mi. Project 6492, Mecklenburg Co. $311,904, and to Roberts Paving Co., S.B.L. & B. Bldg., Salisbury, Md., 6.51 mi. Project 1420, Halifax Co. $147,335. Grand total $2,187,841. Noted Mar. 17.

Georgia—State Hy. Dept., East Point, to Davis Constr. Co., Walton Bldg., Atlanta, paving 14.706 mi. Cordele Perry Rd., Dooly Co. $320,381, concrete paving 9.484 mi. La Grange West Point Rd., Troup Co. $225,224, and 1.203 mi. Greenville-Tallabottom Rd., Meriwether Co. $42,267; to S. E. Finley, 212 West North Ave., Atlanta, penetration macadam paving 2.627 mi. Sandersville-Terrell Rd., Washington Co. $26,449, and medium type surfacing 12.16 mi. Everett City-Old Sterling Rd., Glynn Co. $51,496; to Wallace Constr. Co., 101 Marietta St., Atlanta, grading and bridging 11.092 mi. Statesboro-Swainsboro Rd., Bulloch Co., $68,921; to Nichols Contg. Co., 1281 La France St., Atlanta, local semi graveling and 3 bridges on 5.359 mi. Butter-Thomaston Rd., Taylor Co., $56,919; to Billiter & Oliver Bros., Cincinnati, O., rolled paving 5.581 mi. Clayton-Franklin Rd., Rabun Co., $44,307; to Hopper-Winston, Sunnyside, paving 3.617 mi. Dawson-Sasser Rd., Terrell Co., $86,703; to F. W. Long, Consolidated Bldg., Jacksonville, Fla., surfacing and limerock paving, etc., 9.151 mi. Baxley-Jessup Rd., Wayne Co., $125,708; to Interstate Constr. Co., Independent Life Bldg., Nashville, Tenn., medium type surfacing 13.74 mi. Leesburg-Smithville Rd., Lee Co., $66,572; to Powell Constr. Co., Winston-Salem, N. C., paving 16.275 mi. Swainsboro-Louisville Rd., Emanuel Co., $366,815; to W. F. Bowe, Jr., 541 Broad St., Augusta, paving 2.549 mi. Augusta-Sandbar Terry Rd., Richmond Co., $56,980; to Coffee Constr. Co., Eastman, grading and 1 bridge on 5.099 mi. Hazelhurst Alma Rd., Jeff Davis Co., $25,996; to J. R. Crye, Hendersonville, N. C., grading and 1 bridge Stone Pile Gap-Gaddistown Rd., Union Co., $26,-091; to M. R. Woodall, Walton Bldg., Atlanta, grading, etc., 1.924 mi. Millidgeville-Gray Rd., Baldwin Co., $19,124; to W. C. McCoy, Lafayette, Ala., sand clay paving and 2 bridges on 4.056 mi. Robertta-Talbottom Rd., Crawford Co., $48,927; to R. G. Martin, Covington, grading and 3 bridges on 12.207 mi. Waynesboro-Swainsboro Rd., Burke Co., $50,391; to W. J. Bryson, 239 West Adams St., Jacksonville, Fla., paving 5.587 mi. Louisville-Swainsboro Rd., Jefferson Co., $133,706; to Shettrine & Sanford, Tampa, Fla., grading 7.581 mi. Dublin-Warrenton Rd., Laurens and Wilkinson Counties $48,113, also grading and 1 bridge on Swainsboro-Lyons Rd., Emanuel Co., $96,-283. Grand total $1,987,373. Noted Apr. 7.

Fla., Lake City—Paving South Marion and Duval Sts., to Interstate Constr. Co., Sanford, $61,417. Noted Mar. 10.

La., Jennings—City Comn., grading, curbing and rein.-con. paving 28,100 sq.yd. South and North Main, North Market and Plaquemine Sts., to Flenniken Constr. Co., Cahn Bldg., $73,292. Noted Mar. 17.

Kentucky — State Hy. Dept., Frankfort **(F.A.P. means Federal Aid Project and S.A.P. State Aid Project)**, bank gravel surfacing 5.906 mi. Owensboro-Hawesville Rd., F.A.P. 105-B Daviess Co., to Ellis & Kelly, Owensboro, $43,526; river gravel surfacing 4.207 mi. Owensboro-Stanley Rd., S.A.P. 8-G Daviess Co., to Mulligan & Church, Owensboro $29,263; bituminous macadam surfacing 4.127 mi. Elizabethtown-Leitchfield Rd., F.A.P. 147-A, Hardin Co., to Myers Bros., Campbellsburg, Ind., $65,669; rein.-con. surfacing 3.553 mi. Nicholson-Walton Rd., S.A.P. 104-A, Kenton Co., to Wilmore Paving Co., Middletown, O., $87,-003; waterbound macadam surfacing 0.322 mi. Cobin-London Rd., S.A.P. 5-D Laurel Co., to F. W. Graham, Pineville, $8,428; delivering crushed stone dumped on 4.2 mi. Georgetown-Cynthiana Rd., S.A.P. 58½-B, Harrison and Bourbon Counties, to P. J. Gormley, Versailles, $27,540, and on 16.558 mi. Somerset-Whitley Rd., S.A.P. 22-D, Pulaski Co., to J. H. Hostetter, Lexington, $65,277; grading, etc. 6.799 mi. Kuttawa-Eddyville-Princeton Rd., F.A.P. 162-A and B, Lyon Co., to G. E. Stoner, Charleston, Mo. $89,190, 15.623 mi. Eggners Ferry-Benton Rd., S.A.P. 1-A and B, Marshall Co., and 11.025 mi. Morganfield-Swaneetown Rd., F.A.P. 165-A, Union Co., to Carter, Carter & Braden, Clay, $147,612 and $71,-731 respectively, 7.518 mi. Springfield-Lebanon Rd., F.A.P. 159-A and B, Washington and Marion Counties, to Wilmore Constr. Co., Wilmore, $61,160. Grand total $722,939. Noted Mar. 3.

Ind., Crawfordsville—City Council paving various streets, to Burk Constr. Co., Lafayette. Engrs. est. $25,000.

Ind., East Chicago—City Council paving 1,500 ft. various streets, to H. P. Downey, Jr., East Chicago, $43,000; 7 blocks various streets to Pub. Constr. Co., East Chicago,

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Streets and Roads (Continued)

$56,700; and various streets, to East Chicago Constr. Co., East Chicago, $54,700. Grand total $154,400.

Michigan—R. A. Beers, resident engr., Kalamazoo, concrete paving 5.743 mi. F.A. 139, Sect. B, 20 ft., Berrien Co., to Whitlow & Hobeck, South Haven, for State Hy. Dept., Lansing, $231,570. Noted Sept. 30.

Michigan—H. G. Oaks, resident engr., Cadillac, graveling 12.519 mi. T. L. 20-3, 16 ft., Lake Co., to Anderson & Dean, Tustin, for State Hy. Dept., Lansing, $184,087. Noted Dec. 2.

Mich., Allegan—Allegan Co. Rd., Comn., graveling 3.75 mi. Hamilton-Overisel Rd., to Millard & Sickenga, Muskegon, $31,430; and 1.75 mi. Saugatuck Rd., to Smith & Easley, $14,960.

Mich., Flint—Road Comrs. Genessee Co., concrete paving 0.75 mi. Gaines Village Rd., to T. McNally, Saginaw, $30,543; also 1 mi. Davison Rd. and 1 mi. Bristol Rd., to A. Jeffrey, Saginaw, $39,885 and $34,000 respectively. Grand total $104,428.

Mich., Hastings—Barry Co. Bd. Comn., graveling 9 mi. Township Line Rd., to L. A. Myers, Kalamazoo, $83,346.

Mich., Mason—Ingram Co. Rd. Comn., graveling 1.519 mi. Grovenburg Rd. 2, and 1.043 mi. Hope-Dimondale Rd. 3, to E. J. Worden, Dansville, $8,244 and $7,760 respectively; 3.039 mi. V. F. W. Sects. A and B, to W. M. Friendly, Eaton Rapids, $21,882; 1.499 mi. Brickyard 5, to C. A. Diehl, Dansville, $7,812; 1.499 mi. Meridan-Wheatfield Rd. 2, to Sadler & Rector, Williamston, $8,819; and 4.775 mi. Haslett-Bell Oak Rd. 4, to Walker & Van Dosler, Haslet, $40,191. Grand total $94,708.

Mich., Paw Paw—Van Buren Co. Rd. Comn., graveling 3.9 mi. Covert 51, to O. Klett, Hartford, $30,805; and 5.3 mi. Covert 13, to Yerrington & Place, Buchanan, $53,338.

Mich., Pontiac—Grading and concrete paving 8 mi. Commerce Rd., 20 ft., also constructing Lake Rd., to Bartling & Dull, Pontiac, $296,894 and $183,612 respectively.

Mich., Saint Joseph—Berrien Co., macadam paving 3.73 mi. Rocky Weed Rd., 18 ft., to Gross Constr. Co., Appleton, Wis., $31,421.

Mich., Sandusky—Sanilac Co. Rd. Comn., graveling 2 mi. Road 37 and 2 mi. Road 36, to C. W. Whitely, Sandusky, $15,010; 0.25 mi. Road 37 and 2 mi. Road 38, to B. Libkumen, Marlette, $2,401 and $20,361 respectively. Grand total, $37,772.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to P. J. Crowley Co., 2124 South Central Park Ave., Chicago, paving Route 18, Sect. 7-W, Cook Co., $35,558, to Reganhardt Constr. Co., Cape Girardeau, Mo., Route 115, Sect. 104, Kankakee and Ford Counties, $125,674, Route 115, Sect. 105, Ford Co., $141,166, and Route 115, Sect. 106, Ford Co., $146,553, to French Constr. Co., Fairfield, Ill., Route 137, Sect. 101, Lawrence Co., $55,679, to F. C. Feutz Co., Rochester, Ind., Route 59, Sect. 105, Lake Co., $106,987, to Rouse Constr. Co., Cape Girardeau, Mo., Route 89, Sect. 101, Lee Co., $166,733, to Cameron, Joyce & Co., Keokuk, Ia., Route 116, Sect. 104, Woodford Co., $134,233, to W. Lough & Sons, Marion, Route 151, Sect. 111, Perry and Randolph Counties, $85,462, to L. B. Dyer Constr. Co., Hoopeston, Route 91, Sect. 112, Peoria Co., $98,680, to E. Berns & Co., 3048 North Illinois St., Indianapolis, Ind., Route 2, Sect. 49, Clinton Co., $20,582, to P. Simons, Quincy, Route 99, Sect. 101, $119,090, and Route 102, $68,162, both Hancock Co., and to Ransom & Sherwood, Palestine, Route 140, Sect. 108, White Co., $44,766; to S. J. Groves & Sons Co., Mt. Ephraim, N. J., grading Route 74, Sect. 101-A, Stephenson Co., $162,498, and Route 116, Sect. 103-A, Tazewell and Woodford Counties, $45,031, to Tritt Bros., Belleville, Route 12, Sect. 31-A, St. Clair Co., $6,479, to King & Sheehan, Dudley, Route 25, Sect. 22-A, Douglas Co., $13,163, to F. H. Hendrix, Polo, Route 26, Sect. 4-A Ogle Co., $8,984, to Jensen & Schaefer, Pekin, Route 91, Sect. 113-A, Peoria Co., $27,192, and to M. E. McGuire, Indianapolis Ind., Route 152, Sect. 104-A, Perry Co., $22,710. Grand total $1,635,382. Noted Mar. 3.

Ill., Palatine — Sidewalks on various streets, to E. D. Otto, Downers Grove, $69,852.

Wisconsin—State Hy. Comn., J. R. McClean, div. engr., 1st Natl. Bank Bldg., Superior **(S.A.P. means State Aid Project)** will gravel 1.625 cu.yd. S.A.P. 8262 Washburn Co., J. R. Allen, comr., Spooner; 3.26 mi. S.A.P. 8286, Sawyer Co., E. J. Collett, comr., Hayward; 2.78 mi. S.A.P. 8318 and 0.85 mi. S.A.P. 8290, Barron Co., E. Gleason, comr., Barron. Work will be done by day labor. Noted Mar. 31.

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Wis., Madison—Dane Co. Hy. Comn., J. R. Caldwell, comr., grading, bridging, concrete paving, etc. 123,228 sq.yd. Sauk City-Madison Rd., Job D-202, to F. Doherty Co., 753 47th St., Milwaukee, $318,999. Noted Apr. 7.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Gumz & Switalski, Milwaukee, grading and concrete paving Arthur and Harrison Aves., $5,220, 11th Ave. $11,541, 5th Ave. $14,272, 9th Ave. $15,541, Ohio and Euclid Aves. $7,635, and 27th Ave. $3,853; to J. Schramkowski, Milwaukee, Cold Spring Ave. $9,662, 55th St. and West Mount Court $46,602, 44th and 45th Sts. $10,471, 23rd and Mill Sts. $10,953; and to W. F. Hunt, 1036 1st St., 42nd St. $22,574, Ruby St. $5,294, 12th, 14th and 16th Sts., $67,207. Grand total $230,825.

Ia., Adel—Dallas Co. to H. Moody, Perry, improving Primary Project 250-B, 4,519 cu.yd. gravel 1 mi. haul at $0.26 per cu.yd., 54,000 units ½ mi. haul $0.65, 1,200 cu.yd. stripping $0.20. Noted Mar. 17.

Ia., Elkador—Clayton Co., grading 8.96 mi. Strawberry Point Rd., to Clark, Kearney & Stark, Central City, $34,115.

Ia., Fairfield — Jefferson Co., grading and paving 6.59 mi. Fairfield-Van Buren Co. line Rd., Federal Aid Project 120, to O'Rourke Constr. Co., Des Moines, $180,378. Noted Mar. 31.

Ia., Guthrie Center—Guthrie Co., grading 12 mi. Federal Aid Project 104-B and E, to J. A. Carlson, 5181 Jackson St., Omaha, Neb., $48,427. Noted Mar. 3.

Kan., Mound City — Linn Co., concrete surfacing 20.078 mi. Federal Aid Project 109-A, B and C, to C. H. Atkinson Paving Co., Watertown, S. D. $486,164; 3 in. bituminous filled brick surfacing 1.359 mi. same road, Sect. G, to Cook & Stucker, Ottawa, $89,703; bridges on same road, Sect. D and E, to Maxwell Constr. Co., Columbus, $36,824. Grand total $612,691.

Mo., Kansas City—Bd. Pub. Wks., grading and asphaltic wearing surface on 8 in. concrete paving, etc. Oak St. between 11th and 20th Sts., to W. A. Ross, 1921 Bway., $139,192. Noted Mar. 17.

Mo., Kansas City — For 2 in. asphaltic concrete on 8 in. concrete paving, etc. approximately 8,000 sq.yd. 30th St., to Gray Paving & Material Co., 1927 Vine St., at $4.58 per sq.yd.; and 2 in. warrenite bitulithic paving, etc. approximately 24,213 sq.yd. Troots Ave., at $2.14 per sq.yd.

Mo., St. Joseph—To Land Constr. Co., Ballinger Bldg., asphalt paving 6,496 sq.yd. Maple Leaf Blvd. $24,382, 20,373 sq.yd. Holman St. $50,287, and 18,616 sq.yd. Corby Grove Blvd. $41,803. Grand total $116,472. Noted Mar. 10.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall **(C.B. means City Block)**, to J. F. McMahon Contg. Co., Buder Bldg., rein.-con. paving 1,930 sq.yd. Blendon Pl. $8,747, and brick paving 1,240 sq.yd. Eitman Ave. $9,173; to Eyerman Constr. Co., 1216 South Grand Blvd., granite block paving 11,300 sq.yd. Vendeventer Ave. $74,192, grading and concrete paving alley in C.B. 5865 $4,138; to Alfred Lewald, Inc., 6025 West Cabanne Ave., C.B. 2568 $4,178, C.B. 5832 $4,111, C.B. 3359 $3,574, C.B. 5575 $3,340, C.B. 5478 $2,536, C.B. 5874 $3,961, and C.B. 5875 $2,589; to J. Kesl & Sons, 406 Title Guaranty Bldg., C.B. 2967 $2,574, to Perkinson Bros. Constr. Co., 3237 Carter Ave., C.B. 4232 $4,535, and to Skrainka Constr. Co., Security Bldg., C.B. 5677 $2,227, and C.B. 4404-A $3,198. Grand total $133,073. Noted Mar. 31.

Tex., San Antonio—I. Ewig, City Hall, asphalt on hard paving Washington Sq., Woodlawn Ave., Elmendorf, Glenwood, and Clifford Courts, to Alamo Paving Co., 321 Dawson St., approximately $25,000.

Washington—State Hy. Comn., Olympia **(S.R. means State Road)**, grading, etc. 110,000 cu.yd. S.R. 10, Okanogan Co., to Wilburn & Stone, Inc., 1100 Fairview Ave., Seattle $68,966, 10,500 cu.yd. S.R. 2, Chelan Co., to A. E. Wieland, 630 Okanogan Ave., Wenotchee $7,145, and 9,000 cu.yd. S.R. 7, Lincoln Co., to A. H. Timm, Harrington $8,667; grading, concrete paving, etc. 36,000 sq.yd. S.R. 1, Snohomish Co., to Norris Bros., Burlington, $96,874; crushed stone surfacing 19,000 cu.yd. S.R. 5, Yakima Co., to T. J. Redmon, P. O. Box 438, Yakima, $26,638; concrete culverts on S.R. 7, Kittitas Co., to A. S. Wilson, 21 Sloan Bldg., Yakima, $6,805; and constructing four 60 ft. timber Howe span truss, and three 62 ft. timber bridges, on S.R. 8, Yakima Co., to R. A. Geary, 22 Sloan Bldg., Yakima, $12,155. Grand total $227,250. Noted Mar. 31.

Wash., Olympia—To Forbes & Wilder, Columbia Bldg., grading, curbing, sidewalks and concrete paving 5,100 sq.yd. North Central St. $13,803, engrs. est. $15,000, 11,700 sq.yd. North Washington St. $39,913, engrs. est. $45,619, and 700 cu.yd. 4th Ave. $9,714, engrs. est. $10,665. Grand total $63,430. Noted Feb. 24.

California—State Hy. Dept., Sacramento, grading and bituminous macadam paving 0.4 mi. grading and concrete paving 0.6 mi. roadway between San Juan Creek and Serra, Orange Co., to V. R. Dennis Constr. Co., Bryte Bldg., Sacramento, $86,936. Engrs. est. $93,029.

Calif., San Diego — Common Council, grading, curbing and concrete paving, etc. 165,144 sq.ft. Crystal Dr., etc., to E. P. Ford, 4200 Highland Ave., East San Diego, $66,587, grading and curbing, etc., Orange Ave. and 52nd St., to M. D. Goodbody, 3854 Falcon St., $23,925. Noted Mar. 24.

Calif., San Diego — Bd. Supervs. San Diego Co., grading, curbing, walks, 5 and 6 in. concrete paving, etc. 405,304 sq.yd. Valencia Park 1, R. D. 1, to Miracle Constr. Co., San Diego, $231,959.

Calif., San Luis Obispo—San Luis Obispo Co., grading and graveling Pomeroys Subdivision, to J. F. Collins, Box 4, Stockton, $41,500.

Calif., Santa Cruz—Curbing, walks and concrete paving, etc. Water St., etc., to Granite Constr. Co., Watsonville, $97,946. Noted Apr. 14.

Ontario—Dept. Pub. Highways, Ontario, concrete paving 6.5 mi. Provincial Highway from Kitchener to Wellington Co. line, to P. Bergmann, 128 King St., Waterloo. Engrs. est. $150,000.

Ont., Arnprior—Paving highway between Mississippi and Madawaska Rivers, to W. H. Harvey, Deseronto, $72,000.

B. C., Vancouver—Concrete paving various business and residential streets, to Hodgson King & Marble, 508 London Bldg., Pender St., $73,403, and Cotton Co. Ltd., False Creek, $19,845; asphalt paving various streets, to Columbia Bitulithic Ltd., 500 Beatty St., $44,252; and asphalt and concrete paving various streets, to General Constr. Co. Ltd., Vancouver Blk., Granville St., $42,534. Grand total $180,034.

Buildings—Commercial

Proposed Work

Mass., Belmont (br. Boston) — HOSPITAL — Dept. Mental Diseases, State House, having sketches made hospital, Trapelo St., here. $1,500,000. G. Robb, 15 Exchange St., Boston, archt. Noted Apr. 21.

Mass., Boston—TERMINAL—Densmore, LeClear & Robbins, archts., Park Sq. Bldg., Boston, soon lets contract altering interior South Station Terminal, for Boston Terminal Co., South Station.

Mass., Pittsfield—CLUB—Pittsfield Boys Club, W. G. O'Connell, chn. building com., having plans prepared by Harding & Seaver, 7 North St., 2½ story, 90 x 150 ft., brick and steel club, incl. auditorium, bowling alley and gymnasium with swimming pool, North St. $150,000.

R. I., Cranston (mail Providence)—HOSPITAL—State, G. F. Gordon, c/o G. F. Hall, Union Trust Bldg., Providence, having preliminary plans prepared 2 story and basement, brick, addition to Hospital for Criminally Insane, here. $150,000.

Conn., Stonington—TOWN HALL—Bd. Selectmen having revised plans prepared by Norton & Townsend, 405 Main St., New Haven, 2 story and basement, 70 x 100 ft., brick and steel town hall. $150,000. Noted Mar. 24.

N. Y., Buffalo—WAREHOUSE and OFFICE—Cleveland & Buffalo Transit Co., T. F. Newman, pres. foot East 9th St., Cleveland, O., having plans prepared by W. S. Lougee, Marshall Bldg., Cleveland, O., 1 story, brick and concrete warehouse and office building, also concrete pier, here. $600,000.

N. Y., Rochester — THEATRE — M. J. DeAngelis, archt., Exchange Pl. Bldg., soon takes bids 2 story and basement, rein.-con. and steel, plain foundation, Thurson and Chili Sts., for G. Nicosia, 144 Lincoln Ave. $150,000.

N. Y., Williamsville — CLUBHOUSE — Park Golf Club, Park Golf Club, North Lincoln Blvd., Buffalo, having preliminary plans prepared by C. C. Wendehade, 101 Park Ave., New York City, 2½ story, rein.-con., terra cotta and brick, concrete foundation, Main St., here. $150,000.

N. J., Elizabeth — APARTMENT — G. Duehen c/o A. J. Silberstein, archt., 60 Park Pl., Newark, having plans prepared 5 story, brick, plain foundation, Bellevue St., here. $150,000.

N. J., Elizabeth—APARTMENT—Elann Realty Co., 972 Broad St., Newark, had plans prepared by E. Gerber, 786 Broad

Buildings—Commercial (Continued)

St., Newark, 5 story, 95 x 100 ft., brick and steel, plain foundation, 1112 Anna St. $150,000.

N. J., Hillside (br. Elizabeth)—APARTMENT—Urban & Terpay, c/o A. J. Silberstein, archt., 60 Park Pl., Newark, having plans prepared 3 story, brick, plain foundation, Bailey Ave. $150,000.

N. J., Kearney—APARTMENT—Wilkinson Solomon, c/o E. V. Warren, archt., Essex Bldg., Newark, having plans prepared 3 story, brick, plain foundation, Begrove Dr., here. $150,000.

N. J., Little Falls—THEATRE, OFFICE and STORE—J. Decker, archt., 14 Northfield Ave., West Orange, prepared plans and takes bids about July 1, 2 story, 85 x 155 ft., brick and steel, plain foundation, here, for Little Falls Theatre, F. E. Ransom, 10 East 43rd St., New York City. $150,000. Noted Apr. 21.

N. J., Newark — APARTMENT — Paramount Holding Co., c/o R. Kruger, archt., 60 Branford Pl., having plans prepared 5 story, brick, plain foundation, 35th and Lake Sts. $150,000.

N. J., Newark—BANK—Guardian Trust Co. of New York, 900 Broad St., had plans prepared by Holmes & Wilslow, engrs. and archts., 134 East 44th St., New York City, 5 story, brick and steel, plain foundation, 830 Broad St., here. $250,000. Noted Apr. 15, 1926.

N. J., Newark — CLUB — The Ancaster Co., c/o Simpson & Rolston, Inc., archts., 31 Clinton St., having plans prepared 12 story, 100 x 100 ft., rein.-con., brick and steel, concrete pile foundation. $500,000.

N. J., Orange—APARTMENT—Park & Prospect, Inc., c/o H. F. Clark, archt., 13 Central Ave., Newark, having plans prepared 5 story, brick, plain foundation, Highland Ave. and Fuller Pl. $175,000.

N. J., Orange—APARTMENT—S. Iserman, 754 Scotland Rd., having plans prepared by R. Botelli, 207 Market St., Newark, 4 story, brick, plain foundation, 758 Scotland Rd. $200,000.

N. J., Palisades Park—APARTMENT—S. DiBernardo, c/o A. De Paolo, archt., 106 18th St., West New York, having plans prepared 4 story, brick, plain foundation, Henry St., here. $150,000.

N. J., Union City—APARTMENT—M. Modarelli, 960 Bergenline Ave., having plans prepared by J. S. Sette, 314 9th St., 5 story, brick, plain foundation, 4622 Hudson Blvd. $150,000.

N. J., Weehawken—APARTMENT—Zerman & Rubenstein, 437 Bergenline Ave., West New York, having plans prepared by G. B. McIntyre, 524 17th St., West New York, 5 story, brick, plain foundation, 4th St. and West Blvd., here. $150,000.

Pa., Darby—THEATRE, STORE and OFFICE—Green & Altman, Heyman Bldg., Phila., having plans prepared by W. H. Lee, Schaff Bldg., Phila., theatre, 2,500 seating capacity, Parker Ave. $1,000,000.

Pa., Phila. — APARTMENT — Babis & Bender, Schubert Bldg., soon lets contract 4 story and basement, 150 x 300 ft., brick and steel, plain foundation, Sherman, and Philellena Sts. S. H. Levin, Elrae Bldg., archts.

Pa., Phila.—THEATRE—S. and M. Fineman, c/o Hodgens & Hill, archts., 130 South 15th St., having plans prepared rein.-con., brick and steel, plain foundation, 1,500 seating capacity, 5th and Cambria Sts.

Pa., Phila.—THEATRE, STORE, etc.—Oxford Theatre Corp., 6500 Rising Sun Ave., having plans prepared by Ballinger Co., 12th and Chestnut Sts., 1 story and basement, 180 x 250 ft. theatre, and 2 story and basement, 45 x 140 ft. store, etc., rein.-con., brick and steel, plain foundation, Rising Sun Ave. and Oxford Rd.

Pa., Pittsburgh—HOSPITAL—Associated Doctors Hospital, c/o J. F. Kuntz, archt., Westinghouse Bldg., having preliminary plans prepared 13 story and basement, brick, stone and steel, Friendship Ave. $750,000.

Pa., Pittsburg—LODGE—Malta Temple Assn., c/o M. Langdale, Jenkins Arcade, and Beltz & Klicker, archts., Jackson Bldg., soon lets contract 3 story and basement, 40 x 100 ft., brick and steel, North Ave. and Reddom St. $150,000. Noted Apr. 21.

Pa., Reading—STORE—Croll & Keck, 630 Pennsylvania St., having plans prepared by F. H. Muhlenberg, Ganster Bldg., 4 story and basement, 30 x 270 ft., and 30 x 180 ft., rein.-con., brick and steel, plain foundation.

Pa., Uniontown—COURT HOUSE—Fayette Co. having plans prepared by E. R. Johnson, Uniontown, 3 story, 116 x 128 ft., brick, steel and sandstone, Main St. $450,000.

Pa., Williamsport—APARTMENT—F. E. Flankenhorn & H. M. Winner plan 3 story and basement, 200 x 240 ft., rein.-con. and brick, plain foundation, Edwin St. $200,000.

Md., Baltimore — APARTMENT — W. P. Pearson, 1 East 33rd St., had plans prepared by H. C. Aiken, 4201 Evergreen Ave., 4 story and basement, 42 x 160 ft., rein.-con. and brick, plain foundation, St. Paul and 33rd Sts. $200,000.

La., New Orleans—CLUB—Young Mens Gymnastic Club, 244 North Rampart St., having plans prepared by Diboll & Owen, Ltd., Interstate Bldg., club. $2,000,000.

Tenn., Chattanooga — AUTOMOBILE — Century Co., W. E. Brock, pres., had plans prepared by C. E. Bearden, 1st Natl. Bank Bldg., (1st unit) 1 story, 125 x 378 ft., 472,000 ft. floor space, fireproof, incl. tile, etc., New Broad St. $150,000. Chattanooga Cadillac Co., Chattanooga, lessee.

O., Cleveland—APARTMENT—L. Nozik, 10909 Grantwood Ave., having plans prepared by L. Skolnik, Auditorium Garage Bldg., 4 story and basement, 65 x 70 ft., brick, East 116th St. and Buckingham Rd. $150,000.

O., Lakewood (Cleveland P. O.) — APARTMENT — J. E. Arnoff, 10111 North Blvd., Cleveland, had plans prepared by G. E. Rudolph, 3922 Trumbull Ave., Cleveland, 4 story and basement, brick, Fry Ave. and Clifton Bldg., here. $200,000.

Ind., Anderson—OFFICE—P. E. Brosier, Terre Haute, plans 7 story, 48 x 72 ft., rein.-con. and brick, 1030-4 Meridian St. $300,000.

Ind., Ft. Wayne — HOSPITAL and NURSES HOME — Lutheran Hospital having plans prepared by J. M. E. Reidel, Noll Bldg., and soon takes bids 4 story and basement, rein.-con., brick and steel hospital and nurses home. $300,000. Noted Nov. 11.

Ind., Indianapolis — APARTMENT and STORE — Court Realty Co., c/o W. F. Johnson Lumber Co., 19th and Monon Sts., having preliminary plans prepared 7 story and basement, Meridian St. and Maple Rd. $1,000,000. Engineer and architect not selected.

Ind., Indianapolis — HOSPITAL — Methodist Hospital, A. Smith, supt., 16th and Capitol Sts., having plans prepared by D. A. Bohlen & Son, Majestic Bldg., 8 story, rein.-con., brick and steel addition, new nurses home, power house and laundry. $1,069,000.

Mich., Detroit — HOSPITAL — Harper Hospital, John R. St., having plans prepared by A. Kahn, 1,000 Marquette Bldg., 3 story and basement, rein.-con., brick and steel addition, plain foundation, John R. St. $300,000.

Mich., Detroit—HOTEL—R. T. Lee, General Motors Bldg., having plans prepared by C. Noble, 1009 Lafayette Bldg., 16 story and basement, rein.-con., brick and steel, plain foundation, West Grand Blvd. and Lawton Ave. $2,750,000.

Mich., Detroit—OFFICE—Union Trust Co., Griswold St., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., and Donaldson & Meier, Penobscot Bldg., 40 story and basement, 80 x 270 ft., rein.-con., brick and steel, Griswold St.

Mich., Port Huron—BANK and OFFICE—Federal Commercial & Savings Bank, had plans prepared by Mowbray & Uffinger, 221 West 57th St., New York City, 4 story and basement, 100 x 120 ft., Military and Water Sts. $300,000. Noted Jan. 13.

Mich., Pontiac—STORE—Pringle Furniture Co., Gratiot Ave., having plans prepared 4 story and basement, 66 x 160 ft., rein.-con., brick and steel, plain foundation, North Saginaw St. $300,000. Engineer and architects names withheld.

Ill., Chicago — OFFICE and WAREHOUSE—A. Epstein, archt., 2001 West Pershing Rd., prepared plans and soon takes bids 2 and 1 story and basement, 176 x 275 ft., brick, 4409-33 South Western Ave., for Grinnell Co., 208 South La Salle St. Archts. est. $300,000.

Ill., Evanston — APARTMENT — E. L. Anderson, 30 North Clark St., Chicago, had plans prepared by G. Larson, 5154 North Clark St., Chicago, and soon takes bids 3 story, 143 x 271 ft., brick and stone Oakton, Ridge and Elmwood Aves., here. $550,000.

Ill., Park Ridge—THEATRE, STORE, etc.—W. H. Malone, having plans prepared by Zook & McCaughey, 20 West Jackson Blvd., Chicago, 2 story, basement and tower, 150 x 165 ft., incl. 2,400 ft. theatre, stores, bowling alley, ball room, etc., brick, Prospect and Park Aves. $450,000.

Wis., Madison—GARAGE—Madison Garage Corp., c/o O. J. Koltes, 1 West Main St., plans rein.-con., brick and steel garage. $150,000. Engineer and architect not selected.

Wis., Milwaukee—STORE—Sears Roebuck & Co., Arthington and Homan Sts., Chicago, Ill., having plans prepared by G. Nimmons & Co., 122 South Michigan Ave., Chicago, Ill., 2 story and basement, rein.-con. and brick department store, here. $500,000.

Wis., Wausau — OFFICE — Wisconsin Valley Electric Co., 206-3rd St., having plans prepared by Oppenhamer & Obel, Green Bay, 6 story and basement, 80 x 108 ft., rein.-con., brick and stone, plain foundation, Jefferson and 4th Sts. $250,000. Noted Oct. 28.

Neb., Kimball—COURT HOUSE—Kimball Co., election May 3, $175,000 bonds, 3 story, rein.-con., brick and stone court house.

N. D., San Haven—WARD—State Tubercular Sanitorium having plans prepared by J. A. Spannon, 1st Natl. Bank Bldg., Devils Lake, 5 story, 50 x 100 ft., rein.-con., brick and tile, plain foundation. $160,000.

Mo., Jefferson City—OFFICE—State Hy. Dept. plans 3 story and basement, rein.-con., brick, steel and stone office building. $350,000. Noted Feb. 24.

Mo., Kansas City—APARTMENT HOTEL—C. E. Phillips Building Co., Victor Bldg., plans 10 story and basement, 100 x 120 ft., rein.-con. hotel, incl. shops, Bway. Engineer and architect not selected.

Mo., Kansas City—OFFICE, HOTEL and THEATRE—W. C. Gunn, c/o Defoe & Besecke, archts., 1707 Baltimore Ave., having plans prepared 10 story (ultimately 15 story) and basement, 300 x 300 ft., rein.-con., brick, steel and terra cotta, 36th and Main Sts. $5,000,000.

Mo., St. Louis—GARAGES—Associated Motors Terminal Co., c/o W. King & Associates, Inc., Planters Bldg., having preliminary plans prepared 6 story and basement, 81 x 127 ft. garage, northwest corner 7th and Morgan Sts.; and 6 story basement, 127 x 127 ft. garage northeast corner 7th and Morgan Sts., both rein.-con. with additional parking space on roof.

Ark., Harrison — HOTEL, CLUB HOUSES, etc.—Ozark Development Co., Lawrence, Kan., having plans prepared by H. A. Stonebraker, Balcony Bldg., Kansas City, Mo., hotel, 2 club houses and dancing pavilion, here. $600,000.

Tex., Beaumont—HOTEL—Owner, c/o J. C. Beck, archt., San Jacinto Life Bldg., having preliminary plans prepared 16 story and basement, rein.-con. and brick, plain foundation, between Liberty Ave. and Broadway St. $1,000,000.

Tex., San Antonio—HOTEL—Travis Investment Co., Travis and Soledad Sts., having plans prepared by Adams & Adams, c/o Builders Exch. Bldg., 10 story, rein.-con. and brick addition to Robert E. Lee Hotel, Travis and Flores Sts. $275,000.

Tex., San Antonio—OFFICE and STORE—Real Estate Bd., Gunter Bldg., takes bids after Apr. 25, 10 story and basement, 50 x 101 ft., rein.-con. and brick, plain foundation, St. Marys and Martin Sts. $250,000. Adams & Adams, c/o Builders Exch. Bldg., archts. Noted Jan. 27.

Okla., Muskogee—CITY HALL—City, W. H. Cavanaugh, city clk., election soon $300,000 bonds, 3 story and basement, rein.-con., brick and stone, 3rd and Okmulgee Sts.

Okla., Muskogee — MUNICIPAL — City having preliminary plans prepared 3 story and basement, 100 x 140 ft., rein.-con. and brick, plain foundation, Cherokee St. $300,000. Engineer and architect not selected.

Okla., Oklahoma City—CIVIC CLUB—Capitol Hill Civic Club having preliminary plans prepared 2 story and basement, 140 x 150 ft., rein.-con. and brick, plain foundation, C St. $150,000. Engineer and architect not selected.

Okla., Oklahoma City—OFFICE—Oklahoma City Building & Loan Co. having preliminary plans prepared by Hauk & Parr, Cotton Exch. Bldg., 8 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation, Harvey St. $500,000.

Okla., Ponca City—CLUB—Rock Cliff Country Club having preliminary plans prepared by Smith & Senter, Okmulgee, 2 story, 90 x 200 ft., rein.-con. and timber, plain foundation, here. $175,000.

Ore., Portland — APARTMENT — C. L. Houghtaling, archt., 326 Stark St., soon lets contract 4 story, 100 x 100 ft., rein.-con. and brick, 16th and Davis Sts., for V. Marden, 1100 Northwest Bank Bldg. To exceed $150,000.

Ore., Salem — OFFICE — State having plans prepared by Knighton & Howell, U. S. Natl. Bank Bldg., Portland, 6 story, rein.-con. and brick, Capitol Grounds. $600,000.

Calif., Berkeley — CLUB — Business & Professional Womens Club, plans fireproof club. $250,000.

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Buildings—Commercial (Continued)

Calif., Elmhurst—BANK—Bank of Italy, Bank of Italy Bldg., San Francisco, having plans prepared by H. W. Minton, Bank of Italy Bldg., San Francisco, 1 story, 75 x 100 ft., rein.-con., East 14th St. and 94th Ave., here. $150,000.

Calif., Los Angeles—APARTMENT—A. E. Bagley, c/o F. H. Webster, archt., Guaranty Bldg., having plans prepared 4 story and basement, 96 x 96 ft., brick, Gower St. $150,000.

Calif., Los Angeles—APARTMENT—S. Brown, archt., New Orpheum Bldg., preparing plans 5 story and basement, rein.-con., 4th and Normandie Aves. $250,000. Owner's name withheld.

Calif., Los Angeles—HOTEL—H. B. Pentland, archt., I. W. Hellman Bldg., preparing preliminary plans 5 story and basement, rein.-con., Sunset Blvd. $200,000. Owner's name withheld.

Calif., Los Angeles—HOTEL—W. Bruce, archt., 1121 Pacific Natl. Bank Bldg., preparing plans 13 story, steel and rein.-con., near Westlake Park. $2,300,000. Owner's name withheld.

Calif., Los Angeles—STORE—Foreman & Clark, Hill St., having sketches made clothing store, 7th and Hill Sts. $1,000,000. Engineer and architect not selected.

Calif., Redwood City—HOTEL—Leonard & Holt, 220 Kearny St., San Francisco, having plans prepared 2 story, rein.-con., Emerald Lake. $150,000. Private plans.

Calif., San Francisco—APARTMENT—W. H. Woodfield, Jr., 315 Montgomery St., plans 6 story and basement, probably rein.-con., 22nd and Bartlett Sts. $175,000. Engineer and architect not selected.

Calif., San Francisco—APARTMENT—A. Lilley, c/o Bakewell & Brown, archts., 251 Kearny St., having plans prepared 7 story and basement, rein.-con., Pacific and Broderick Sts. $150,000.

Calif., San Francisco—APARTMENTS—B. Liebman, 747 Call Bldg., had plans prepared by R. R. Irvine, New Call Bldg., two 6 story, rein.-con., Scott and Jefferson Sts. $150,000 each.

Calif., San Francisco—APARTMENT—A. H. Larsen, archt., 447 Sutter St., soon takes bids 6 story and basement, concrete and steel, O'Farrell and Franklin Sts., for One Thousand Fifty-One Investment Co., c/o architect. $150,000.

Calif., Stockton—CLUB—Corporation to be formed to finance, F. V. Mayo, archt., and J. V. Mendenhall, pres. Stockton Chamber of Commerce, interested, plan fireproof, skycraper type. To exceed $150,000.

Calif., Watsonville—WAREHOUSE and SHEDS, etc.—Southern Pacific R.R., C. R. Harding, ch. engr., 65 Market St., San Francisco, plans warehouse, sheds, etc., Watsonville Junction, here. $150,000.

Bids Desired

Mass., Cambridge (Boston, P. O.)—HOTEL and STORE—F. W. McLeer & Co., 1384 Massachusetts Ave., taking bids 6 story and basement, 90 x 115 ft., brick and steel, plain foundation, Mt. Auburn and Dunster Sts. $150,000. Ashton, Huntress & Alter, 477 Essex St., Lawrence, archts.

Mass., Clinton—APARTMENT—Philbin Bros., 24 Wilson St., taking bids 3 story and basement, brick and stone, 20 High St. $150,000. A. J. Smith, 56 Front St., Worcester, archt.

Mass., Dedham — STORE and APARTMENT—B. Paternaude, 574 High St., Boston, taking bids 3 story and basement, brick and stone, plain foundation, High St. $150,000. C. Loring, 7 Water St., Boston, archt.

Mass., Jamaica Plain (sta. Boston) — HOME—Home for Italian Children, 1125 Center St., taking bids 2 story and basement, 60 x 100 ft., brick, stone and terra cotta, plain foundation, Center St. $150,000. W. W. Drummey, 80 Boylston St., Boston, archt. Noted Mar. 25.

Mass., Lawrence—MANUFACTURING—Emerson Mfg. Co., Market St., taking bids 1 story, 50 x 225 ft., rein.-con. and brick, plain foundation, Market St. To exceed $150,000. Ashton, Huntress & Alter, 477 Essex St., archts.

Mass., Manchester—THEATRE and OFFICE—Capitol Amusement Co. taking bids 2 story and basement, brick and steel, plain foundation. $150,000. Desmond & Lord, 1 Beacon St., Boston, archts.

Mass., Plymouth—STORE—Green Bros., 2185 Washington St., Roxbury, taking bids 2 and 3 story and basement, brick, plain foundation, here. $150,000. Krokyn & Browne, 220 Devonshire St., Boston, archts. Noted Apr. 14.

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Mass., Springfield—GARAGE and TERMINAL—T. F. Nolan, agt. S. Z. Poli Realty Co., 196 Worthington St. taking bids 6 story, 131 x 207 ft., rein.-con. and steel, Bway. $1,000,000. H. C. Hearne, 3rd Natl. Bank Bldg., archt.

Mass., Springfield—THEATRE, STORE and OFFICE—Goldstein Bros., Bridge St., taking bids 2 story and basement, rein.-con., brick and steel, plain foundation, State St. $300,000. Blackhall, Clapp & Whittemore, 31 West St., Boston, archts. Noted July 29.

Mass., Stoughton — THEATRE and STORE — E. Ansin, 333 Washington St., Boston, taking bids 1 and 2 story and basement, 60 x 130 ft., brick and steel, plain foundation, Washington St., here. $160,000. Funk & Wilcox, 26 Pemberton Sq., Boston, archts. Noted Dec. 30.

R. I., Providence — OFFICE — State of Rhode Island, J. S. Holbrook, chn., c/o Jackson, Robertson & Adams, Turks Head Bldg., taking bids 3 story and basement, rein.-con. and brick, plain foundation, Smith and Davis Sts. $150,000. Noted Feb. 4, 1926.

R. I., Providence — STORE, DANCE HALL, etc.—T. DeCesare, 598 Charles St., taking new bids 3 story and basement, brick and stone, plain foundation. $150,000. Former bids rejected. A. F. Matrumalo, 591 Charles St., archt. Noted Apr. 14.

Conn., Hartford—TEMPLE—Congregation Beth Israel, I. Wise, chn. building com., c/o C. R. Greco, archt., 11 Beacon St., Boston, Mass., taking bids 3 story, 125 x 125 ft., rein.-con., steel and limestone synagogue and school, Farmington Ave. $250,000. Noted Feb. 27.

Conn., Middletown — THEATRE — See "Contracts Awarded."

N. Y., Long Island City—APARTMENTS—See "Contracts Awarded."

N. Y., New York—LOFT—See "Contracts Awarded."

N. Y., Utica—HOSPITAL—May 11, by Commissioner Mental Hygiene, Dept. Hygiene, Albany, constructing hospital, exit facilities and fire stops, etc. at Utica State Hospital, here; adv. E. N.-R. Apr. 28.

N. J., Asbury Park—APARTMENT—See "Contracts Awarded."

N. J., Lyndhurst (br. Rutherford) — APARTMENT—See "Contracts Awarded."

N. J., Orange — APARTMENT — See "Contracts Awarded."

Pa., Phila.—APARTMENT—H. T. Ryan, c/o M. Haupt, archt., 9th and Walnut Sts., taking bids 4 story and basement, 40 x 175 ft., brick and steel, plain foundation, 3913-15 Spruce St.

Pa., Phila.—SALES and SERVICE—May 2, by P. S. Tyre, archt., 114 South 15th St., rein.-con., brick and limestone, plain foundation, 1515 North Broad St., for R. H. and J. J. Greenberg, Morris Bldg. Harper & Harper, 220 North Broad St., lessee.

Pa., Reading — May 4, by Pennsylvania R.R. Co., Broad St. Sta., Phila., 3 story and basement, 95 x 171 ft. Y. M. C. A. building, rein.-con., brick and terra cotta, plain foundation, 6th and Oley Sts., here. S. T. Wagner, 12th and Market Sts., Phila., engr.

Md., Baltimore—STORE—May 2, by Abbott Merkt & Co., archts., 175 5th Ave., New York City, 6 story and basement, 176 x 261 ft., irregular shaped, rein.-con., brick and steel addition, Baltimore, Pine and Redwood Sts., here, for Hecht Dept. Store, Baltimore and Pine Sts. $500,000.

Fla., Ft. Lauderdale—COURTHOUSE—May 3, by Comrs. Broward Co., for courthouse. $350,000. J. N. Peterman, Ft. Lauderdale, archt. Noted May 6.

Miss., Biloxi—HOTEL—See "Contracts Awarded."

O., Cleveland—WAREHOUSES—May 2, by Christian, Schwarzenberg & Gaeda, engrs. and archts., 1900 Euclid Bldg., 5 story and basement, 100 x 170 ft., rein.-con. and brick, Woodland Ave. and New York Central R.R. tracks, for Ohio Bell Telephone Co., R. P. Eide, genl. mgr., 4300 Euclid Ave. $500,000. Noted Mar. 10.

Ind., Gary—STORE, APARTMENT and OFFICE—See "Contracts Awarded."

Mich., Detroit—JAIL—May 3, by Auditors Wayne Co., 6 story and basement, rein.-con., brick and steel, plain foundation, Clinton and Raynor Sts. $1,000,000. Former bids rejected. A. H. Gould & Son, 602 Empire Bldg., archts. Noted Apr. 21.

Mich., Detroit—THEATRE and COMMERCIAL—B. B. Wetsman, 721 Dime Savings Bldg., taking bids 2 story and basement, 180 x 200 ft., rein.-con., brick and steel, Davison St. and Linwood Blvd. Graven & Mayger, 180 North Michigan Ave., Chicago, Ill., archts.

Mich., St. Joseph—HOTEL—May 11, by Pond, Pond, Martin & Lloyd, archts., 6 North Michigan Ave., Chicago, Ill., 9 story rein.-con. and brick hotel, Lake Blvd. and Ship St., here, for Hotel Whitcomb, $600,000.

Ill., Chicago—APARTMENT and STORE—May 5, by J. J. Jensen, archt., 1105 Lawrence Ave., 3 story and basement, 100 x 150 ft., cast iron, brick and terra cotta, Argyle and Kenmore Aves., for G. W. Prassas, 111 West Washington St. $250,000.

Ill., Chicago—HOSPITAL—P. T. Johnstone, archt., 190 North State St., taking bids 6 story and basement, 385 ft. long, X shaped hospital, 6542-6614 Ridge Ave., for Ridge General Hospital, c/o architect. $1,500,000. Noted Oct. 21.

Ill., Chicago—HOTEL—E. P. Steinberg, archt., 360 North Michigan Ave., taking bids 5 story and basement, 30 x 180 ft., rein.-con., brick and terra cotta, 662-664 West Madison St., for J. B. Drewll, c/o architect. $300,000.

Wis., Rhinelander — HOTEL — J. Bronk taking bids 4 story and basement, 60 x 94 ft., rein.-con., brick and steel hotel, plain foundation. $200,000. Private plans. Noted Mar. 17.

Wis., Wauwatosa—THEATRE—May 2, by Peacock & Frank, archts., 445 Milwaukee St., Milwaukee, 2 story and basement, 68 x 120 ft., rein.-con., brick and steel, plain foundation, Wisconsin Ave., here, for Badger Building Serv., Inc., 445 Milwaukee St., Milwaukee. $150,000. Noted Jan. 13.

Tex., Corpus Christi—HOTEL—May 10, by Adams & Adams, archts., c/o Builders Exch. Bldg., San Antonio, 6 story and part basement, 50 x 110 ft., rein.-con. and brick addition to Nueces Hotel, plain foundation, here, for Nueces Hotel. $200,000. Noted Apr. 7.

Okla., Oklahoma City — EXCHANGE—May 15, by R. J. Benzel, mgr., Pioneer Bldg., 14 story and basement, 75 x 140 ft., rein.-con. and steel, plain foundation, 3rd St., for Southwestern Bell Telephone Co., 3rd St. and Bway. $1,000,000. Engineer and architect not announced. Noted Jan. 6, 1926.

Wash., Seattle—STORE and OFFICE, etc.—June 1, by O. F. Nelson, archt., Lumber Exch. Bldg., 2 story and basement, 77 x 90 ft. store and office building, 2 story and basement, 60 x 127 ft. store and apartment building and 1 story 60 x 127 ft. motion picture theatre, all rein.-con. and steel. 85th and Greenwood Sts., for J. W. Brattain, c/o architect. $175,000.

Calif., San Bernardino—STORE, OFFICE and THEATRE—J. P. Perrine, archt., Lincoln Bldg., Los Angeles, taking bids rein.-con., 4th St., for W. O. Harris, et al.

Calif., San Francisco—APARTMENT—R. C. Sisson, archt., 468 Crescent St., Oakland, taking bids 14 story and basement, Hyde St., for C. Schaffer, 560 Sutter St. $175,000. Noted Mar. 24.

Contracts Awarded

Mass., North Adams — HOME — North Adams Hospital, H. W. Clark, pres., 3 story and basement, brick and stone, plain foundation, Pleasant St., to Casper Ranger Constr. Co., 20 Bond St., Holyoke. Archts. est. $150,000. Noted Feb. 17.

Mass., Salem — THEATRE — P & D Theatres, Inc., c/o J. H. Bickford & Sons Co., archts., 6 Beacon St., Boston, brick and steel, Washington and Dodge Sts., here, to R. W. Perkins & Associates, Cambridge. Archts. est. $750,000.

Mass., Waltham (Ind. br. Boston) — APARTMENT and STORE—Belderman & Beckerman, 152 School St., Everett, 4 story and basement, brick, plain foundation, Moody and Cushing Sts., to J. Rand, 271 Shirley St., Winthrop. Archts. est. $150,000.

Conn., Middletown — THEATRE — Middlesex Theatre, C. Arrigoni & O. Pelliccia, 181 Main St., will build rein.-con., brick and steel, Main St. $250,000. Work will be done by separate contracts. T. W. Lamb, 644 8th Ave., New York City, archt.

N. Y., Albany — OFFICE — Owner, c/o Shreve & Lamb, archts., 331 Madison Ave., New York City, 13 story and basement, 70 x 250 ft., rein.-con., brick and stone, plain foundation, State and Lodge Sts., to G. Richard Davis 12 East 41st St., New York City. Archts. est. to exceed $150,000.

N. Y., Long Island City—APARTMENTS—S. Loane Holding Co., c/o J. Wandell, 356 Fulton St., Brooklyn, will build eight 3 story, rein.-con., brick and steel, concrete foundations, Laurel Hill Blvd. and Bliss St., here. $170,000. Work will be done by separate contracts.

N. Y., New York—APARTMENT—One Hundred Twenty-One East 72nd St. Corp.,

Buildings—Commercial (Continued)

342 Madison Ave., 16 story and basement, 82 x 100 ft., rein.-con., brick and steel, plain foundation, 117 East 72nd St., to T. E. Rhoades Constr. Co., 342 Madison Ave. Archts. est. $750,000.

N. Y., New York—BANK and OFFICE—Central Savings Bank, 100 East 14th St., 5 story and basement, 100 x 204 ft., rein.-con., brick and steel, plain foundation, Bway. between 73rd and 74th Sts., to Hegeman Harris Co., Inc., 360 Madison Ave. Archts. est. $3,000,000. This corrects report in July 15 issue.

N. Y., New York—LOFT—James Stewart Realty Co., 17 East 42nd St., will build 18 story, 87 x 98 ft., brick, steel and stone, 128 West 30th St., by day labor.

N. Y., New York—LOFT and STORE—Three Hundred Fifteen-Three Hundred Twenty-One West 39th St. Corp., c/o H. I. Oser, archt., 1440 Bway., 14 story and basement, 315-321 West 39th St., to Magoba Constr. Co., 103 Park Ave. Archts. est. $600,000. This corrects report in Apr. 21 issue.

N. Y., New York — SETTLEMENT HOUSE and CLUB—Christodora House, 147 Avenue B, 14 story and basement, brick, steel and stone, plain foundation, Avenue B and 9th St., to Marc Eidlitz & Son, 41 East 42nd St. Archts. est. $750,000.

N. Y., Rochester—PUBLISHING—Times-Union Publishing Co., 22 Exchange St., rein.-con. and brick to Bealé Constr. Co., 15 Grange Pl. Archts. est. $400,000.

N. J., Asbury Park—APARTMENT—E. S. Klausner, c/o B. Braunstein, archt., Jamaica Ave., Jamaica, will build 7 story, brick and steel, plain foundation, Webb St. $400,000. Work will be done by separate contracts.

N. J., Bergenfield—BANK—Bergenfield Natl. Bank, Main St., general contract 2 story, 50 x 70 ft., brick and steel, plain foundation, Main St., to F. and C. Haerter, 769 Dewey Ave., West New York. Archts. est. $150,000. Noted Apr. 7.

N. J., Lyndhurst (br. Rutherford) — APARTMENT—Livan Bros., Inc., 206 Central Ave., Orange, will build brick, plain foundation, 2nd and Livingston Aves. $150,000. Work will be done by separate contracts. Noted Apr. 14.

N. J., Orange—APARTMENT—C. and H. Investment Co., 185 Market St., Newark, will build 5 story, 65 x 100 ft., brick, plain foundation, Central Ave. and Center St., here. $200,000. S. Cohen, 130 Branford Pl., Newark, archt. Work will be done by separate contracts. Noted Apr. 14.

N. J., Plainfield—STORE, OFFICE and APARTMENT—Park & 7th Avenue Corp., c/o E. V. and C. F. Warren, archts., Essex Bldg., Newark, general contract 2 story and basement, 75 x 140 ft., brick and steel, plain foundation, Park Ave., here, to Wigton-Abbott Corp., 552 West 23rd St., New York City. Archts. est. $150,000.

Pa., Phila.—APARTMENTS—C. M. Rudisill, Penna. Bldg., three 4 story and basement, 40 x 232 ft., brick, plain foundation, Walnut Lane and Greene St., to Nelson-Pedley Co., Corn Exch. Bldg. Archts. est. $652,000.

Pa., Phila.—APARTMENT—J. R. K. Scott, Lincoln Bldg., 3 story and basement, 60 x 115 ft., brick and steel, plain foundation, city line and Oakland Terrace, to A. L. Fretz, Head Bldg.

Pa., Phila.—APARTMENT—M. Leconowitz, 1621 Nedro St., 4 story and basement, irregular shaped, brick and steel, plain foundation, 58th and Hoffman Sts., to Zarch & Fisher, Real Estate Trust Bldg. Archts. est. $150,000.

Pa., Phila.—APARTMENT—Steinman & Lesse, 5368 Morse Ave., will build 4 story and basement, 100 x 113 ft., brick and steel, plain foundation, 47th and Walnut Sts. $200,000. J. A. Seipel, 2350 Columbia Ave., archt. Work will be done by separate contracts.

Pa., Phila.—CLUB—Christian Assn. of University of Pennsylvania 34th and Spruce Sts. 3 story and basement, 80 x 120 ft., rein.-con., brick and steel, plain foundation, 36th and Locust Sts., to Wark Co., 1600 Walnut St. Archts. est. $300,000.

Pa., Phila.—OFFICE—S. Haltz, c/o M. A. Bernhardt, archt., 127 South 18th St., 6 story and basement, 30 x 63 ft., rein.-con., brick and steel, plain foundation, 260 South 15th St., to Edgar Constr. Co., c/o architect.

Pa., Phila.—SALES and SERVICE—P. S. Tyre, archt., 114 South 15th St., 8 story and basement, 75 x 160 ft., rein.-con., brick and steel addition, plain foundation, Broad and Ridge Sts. to Wark Co., 1600 Walnut St., for Cadillac Co. $200,000. Noted Apr. 14.

Pa., Pittsburgh—WAREHOUSE—Joseph Horne Co., 5th St. and Penn Ave., general contract 8 story and basement, approximately 200 x 220 ft., rein.-con., brick and sandstone, Rebecca St., to W. F. Trimble & Sons, 1719 Penna. Ave. Archts. est. $2,000,000. Noted Apr. 14.

Md., Baltimore—APARTMENT—E. H. C. Browne, archt., 516 North Charles St., 4 story, irregular shaped, brick and steel, plain foundation, Park Heights Ave. and Clarks Lane, to Consolidated Eng. Co., 20 East Franklin St., for J. Mien, 2949 Frederick Ave. $350,000. Noted Mar. 17.

Md., Hagerstown — HOTEL — Alexander Hotel Co., c/o C. N. and N. Friz, archt., Lexington St., Baltimore, 10 story and basement, 50 x 150 ft., rein.-con., brick and steel hotel, to Consolidated Eng. Co., 20 East Franklin St., Baltimore, $650,000. Noted July 22,

Miss., Biloxi—HOTEL—G. M. and H. R. Bechtel, Davenport, Ia., and G. Stannus, Biloxi, will build 4 story and basement, 115 room, rein.-con. and brick hotel. $350,000. Work will be done by separate contract under supervision Federal Eng. Co., archts., Davenport, Ia.

Miss., Jackson—HOSPITAL—State Hospital Removal Impvt. & Land Sale Comn., administration and receiving buildings, hospital, dining hall and 2 attendants cottages, to I. C. Garber, Medical Bldg., $426,033; officials building and 2 convalescent cottages, to Currie & Corley, Raleigh, $97,780, for Rankin Co., Insane Hospital Colony, State Prison Farm, near here. Noted Mar. 17.

Tenn., Jackson—HOTEL—Southern Hotel Co., general contract 8 story, rein.-con. and brick, concrete pile foundation, Public Sq., to B. E. Buffaloe Constr. Co., Memphis, approximately $500,000.

Tenn., Memphis — BANK — Marx & Bensdorf, 2 story, 75 x 150 ft., Bedford stone, bronze, etc., South 2nd St. and Monroe Ave., to Kaucher-Hodges Co., Shrine Bldg., approximately $300,000.

O., Berea—BANK and OFFICE—Commercial Savings Bank, 5 story and basement, 50 x 65 ft., brick and steel, to D. Gilchrist, Berea. Archts. est. $150,000.

O., Columbus — COURT HOUSE — Bd. Comrs. Franklin Co., remodeling court house, South High St., to Knox & Phillips, 133 Eldon Ave., $107,890. Noted Nov. 18.

Ind., Gary—CITY—City, general contract 3 brick and steel buildings for Dept. Yards, to H. B. Olney, East Chicago, $149,253.

Ind., Gary—APARTMENT—T. H. Garbowski, 1710 Bway., will build 3 story and basement, 80 x 150 ft., brick, steel and terra cotta, 900 Block, West 5th St. $150,000.

Ind., Gary—STORE, APARTMENT and OFFICE—W. H. Welter, 622 Bway., will build brick and steel store, apartment and office building. $150,000. Work will be done by separate contracts. L. H. Warriner, Gary, archt.

Ill., Chicago—APARTMENT—Quinn & Christensen, archts., 360 North Michigan Ave., masonry and concrete contract 15 story and basement, 60 x 180 ft., rein.-con., and brick, 431 Oakdale Ave., to A. Lindstrom 77 West Washington St., for Four Hundred Thirty-One Oakdale Building Corp., c/o architects. Archts. est. $1,250,000. Noted Apr. 14.

Ill., Chicago—GARAGE—Chicago Mchy. Mart Building Corp., 14 East Jackson Blvd., masonry and carpentry contract 2 story, 149 x 340 ft., brick, 306-18 South Canal St., to R. C. Weiboldt Co., 1534 Van Buren St. Archts. est. $300,000.

Ill., Evanston—APARTMENT HOTEL—P. A. Danielson, archt., 1569 Sherman Ave., masonry concrete and structural steel contract 7 story and basement, 66 x 180 ft., 1625 Hinman Ave., to E. Edlund, 5625 North Paulina St., plumbing, to J. H. Schiller & Co., 1512 West Roosevelt Rd., heating and ventilating, to E. J. Claffey, 10 West Illinois St.; plastering, to H. Sutton, 35 South Dearborn St.; carpentry, to A. Johnson, 4319 North Richmond St., for Homestead Apartment Hotel Corp., c/o architect. Archts. est. $700,000. Noted Mar. 10.

Ill., Evanston — APARTMENT — W. H. Bell, 4336 South Kedzie Ave., masonry, concrete and reinforcing contract 3 story and basement, 175 x 255 ft., Ridge Ave. and Hull St., to A. W. Anderson, 1436 Elmdale Ave., Chicago. Archts. est. $500,000. Noted Feb. 24.

Ill., La Grange—APARTMENT—C. Jensen, 646 North Ashland Ave., 3 story and basement, rein.-con. and brick, Calendar and Kensington Aves., to G. W. Drollinger, 4753 West Madison Ave., Chicago. Archts. est. $200,000.

Ill., Rockford—STORE and OFFICE—H. Shaw Associates, archts., 104 South Michigan Ave., general contract 5 story and basement, 78½ x 126½ ft., brick, steel and stone, 317 West State St., to Security Building Co., 1016 Church St. Archts. est. $650,000.

Mo., St. Louis—GARAGE—F. H. Fitch, Huntinger Bldg., Kansas City, 1 story and part basement, 130 x 132 ft., brick garage, concrete foundation, 9th and Walnut Sts., here, to William H. and Nelson Cunliff Co., 410 North Euclid Ave. Noted Aug. 12.

Mo., St. Louis — GARAGE — Universal Automobile Serv. Co., c/o C. R. Felton, pres. Missouri Theatre Bldg., 6 story, basement, and enclosed roof garden, 150 x 150 ft., rein.-con., and terra cotta, Delmar Ave. west of Grand Blvd., to Mid-Continent Co., Inc., Loudermen Bldg. Noted Mar. 31.

Tex., Dallas — OFFICE — Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., structural steel for 16 story and basement, 107 x 176 ft., rein.-con., brick steel and stone office building, to Virginia Bridge & Iron Co., Kirby Bldg. Archts. est. $2,500,000.

Tex., Harlingen—HOTEL—C. S. Moore, c/o Moreland Hotel, general contract 3 story and part basement, 100 x 140 ft., rein.-con., brick and hollow tile, plain foundation, Van Buren and 2nd Sts., to J. W. Driscoll, Harlingen, $200,000.

Okla., Tulsa—OFFICE—A. M. Atkinson, archt., Mid-Continent Bldg., 10 story and basement, 60 x 140 ft., rein.-con., brick and terra cotta, plain foundation, Bolder St., to Manhattan Constr. Co., Muskogee, for C. W. Day, Tulsa. $761,000. Archts. est. $800,000. Noted Dec. 30.

Buildings—Industrial

Proposed Work

R. I., Pawtucket—COAL GAS PLANT—See "Contracts Awarded."

N. J., Newark — PLANT — Oxweld Acetylene Co., 646 Frelinghuysen Ave., had plans prepared by Lockwood, Greene & Co., engrs. and archts., 100 East 42nd St., New York City, 3 story, 80 x 200 ft., rein.-con. and brick, plain concrete foundation. $150,000.

N. J., Newark — MACHINE SHOP — Newark Gear Cutting Machine Co., 65 Prospect St., soon lets contract 2 story, 49 x 95 ft., rein.-con., brick and steel addition, plain foundation, 67 Prospect St. $50,000. Bishop & Scudder, 9 Clinton St., archts. and engrs.

N. J., Park Ridge — Mittagh & Volger, Park Ave., had plans prepared by W. E. Truesdell, 29 Mountain Ave., Summit, 2 story, brick and steel, plain foundation. $75,000.

Miss., Leland — LIGHT and POWER PLANT—Election soon $50,000 bonds, remodeling light and power plant. Swanson-McGraw, Inc., Balter Bldg., New Orleans, La., engrs.

Tenn., Nashville — PAPER MILL — Tennessee Extract Co., 63rd Ave. plans paper mill in conjunction with extract works, 63rd Ave. $500,000.

O., Columbus — REPAIR GARAGE — Hoster Realty Co., 1 South 4th St., having plans prepared by Bassett & Tresselt, 257 East Broad St., 2 story and basement, 57 x 92 ft., South 4th St. $50,000. Noted Mar. 10.

Ind., Ft. Wayne—FACTORY—Fries Tool & Machine Wks. having plans prepared by G. Mahurin, Standard Bldg., and soon takes bids 1 story and basement, 40 x 140 ft., rein.-con., brick and steel factory. $50,000.

Ind., Ft. Wayne — PLANT — Journal-Gazette having plans prepared by C. R. Weatherhogg, 250 West Wayne St., and soon takes bids brick plant. $75,000.

Ind., Huntington—FACTORY—Huntington Factory Assn. had plans prepared by R. W. Stevens, Huntington, 1 story, brick and steel factory. $45,000. H. W. Lampman, lessee.

Ind., Marion—PLANT—U. S. Glove Co., c/o H. C. Clayton, plans 1 story, 63 x 100 ft. and 20 x 40 ft., brick and steel addition. $42,000. Private plans.

Wis., De Pere — FACTORY — De Pere Paper Mfg. Co. having plans prepared 4 story, 60 x 160 ft., rein.-con., brick and steel, plain foundation. $40,000. Private plans.

Wis., Iron River—PLANT—Iron River Packing Co. plans rein.-con., brick and steel addition, plain foundation. $40,000. Engineer and architect not selected.

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Buildings—Industrial (Continued)

Wis., Portage — PLANT — Wisconsin Power & Light Co., 16 North Carroll St., having plans prepared rein.-con., brick and steel, plain foundation. $40,000. Engineer and architect not selected.

Wis., Sheboygan—STATION and SHOP—Schneiderwind & Zehms, 1401 Indiana Ave., having plans prepared by W. C. Weeks, 730 Ontario Ave., 2 story, 20 x 22 ft., and 33 x 44 ft., rein.-con., brick and steel service station and shop, plain foundation, here. $40,000.

Wis., West Allis — RECEIVING and SHIPPING—Le Roi Co. 60th Ave. and Mitchell St., having plans prepared 1 story 50 x 100 ft. main building, 2 story, 18 x 48 ft. pattern storage, building, and 1 story, 20 x 50 ft. boiler room, brick and steel, plain foundations, 60th Ave. O. P. Willms, West Allis, engr.

Ia., Sheldon — LIGHT and POWER PLANT — Election May 4 $90,000 bonds, light and power plant.

Ia., Sheldon — POWER PLANT — Election May 4, $35,000 bonds, electric light, power plant and distribution system. Total est. $90,000.

Mo., Kansas City—FEED MILL—Southard Feed & Mfg. Co., 17th St. and Cookson Ave., plans rebuilding feed mill recently destroyed by fire. $150,000 loss. Private plans.

Mo., Stanberry—LIGHT PLANT, etc.—See "Unclassified."

Ark., White Cliffs—CEMENT MILL—Lime Products Co., Home Insurance Bldg., Little Rock, A. B. Banks, pres., having preliminary plans prepared mill, near here. $500,000. A. M. Lund, Home Insurance Bldg., Little Rock, engr.

Okla., Cameron—CANNERY PLANT—E. Hill & F. C. Lange, Seneca, Mo., making preliminary plans cannery plant, here. $40,000.

Okla., Purcell—POWER PLANT—Election May 3, $80,000 bonds, electric light plant, incl. 2 new 400 hp. Diesel oil engines, electric generator and auxiliary equipment. H. E. Musson, Grain Exch. Bldg. Oklahoma City, engr.

Calif., Chico — CREAMERY — Knudsen Creamery Co., J. W. Paulson, mgr., Oakley and Boone Sts., Santa Maria, plans brick or concrete creamery. $75,000.

Calif., Los Angeles—FACTORY—J. J. Cash, Inc., 3429 South Main St., having plans prepared 1 story, 50 x 130 ft., probably brick, 64th St.

Calif., San Francisco — FACTORY — Herbst Mfg. Co., 1525 Mission St., plans 1 story, brick or concrete, Mission St. near 11th St. $40,000. Engineer and architect not selected.

Calif., San Francisco — FACTORY — Metropolitan Furniture Co., 1017 Folsom St., had plans prepared by M. I. Schwartz, Nevada Bank Bldg., 2 story, brick, 7th Ave. $40,000.

Calif., San Francisco — FACTORY — Simon Mattress Mfg. Co. 1900 16th St., purchased site and having plans prepared probably 3 or 4 story, rein.-con., Yosemite St. Engineer and architect not selected.

Calif., Los Angeles—PRINTING PLANT—Downtown Shopping News having plans prepared by Morgan, Walls & Clement, Van Nuys Bldg., 3 story, mezzanine and basement, 150 x 159 ft., steel and rein.-con., 35th and Hope Sts. $350,000. Noted Mar. 3.

N. B., St. John—FACTORY—Western Canners Maritime Ltd. soon takes bids canning factory. $200,000.

Que., Montreal—PLANT—R. H. Monk of McArthur Irwin Ltd., 20 St. Paul St., soon takes bids plant for manufacturing Titanium White (new pigment used same way as white lead).

Ont., Paris—MILLS—St. Hyacinthe Quebec Penmans Ltd. having plans prepared by J. H. Moore, 489 Richmond St., London, yarn mills. $250,000.

Sask., Saskatoon — OIL REFINERY — Yorkton Oil & Refining Co., c/o W. T. Ross, genl. mgr. Irro Gas & Oil Co. Ltd., soon takes bids oil refinery. $300,000.

Bids Desired

Vt., White River Junction — SHOP, GARAGE and STORAGE—Vermont Baking Co., 31 North St., taking bids, rein.-con. and brick, plain foundation, North St. $40,000. Wells & Hudson, Hanover, N. H., archts.

Mass., Brookline (br. Boston) — MACHINE SHOP, etc.—H. M. Rambach, 18 Tremont St., Boston, taking bids 1 story, 50 x 195 ft., brick and stone machine shop and stores, plain foundation, Harvard and Alton Pls. R. H. Bryant & Son, 334 Washington St., archts.

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Mass., Wellesley—REPAIR and SERVICE GARAGE—J. E. Lee, 562 Washington St., taking bids 1 story, rein.-con. and steel, plain foundation, Linden St. $75,000. O'Connell & Shaw, 134 Newbury St., Boston, archts. Noted Jan. 6.

Mass., Woburn—FACTORY—See "Contracts Awarded."

R. I., Pawtucket—COAL GAS PLANT—See "Contracts Awarded."

R. I., Providence — REPAIR GARAGE, etc.—White Co., E. Harlow, mgr., East 79th St. and St. Clair Ave., Cleveland, O., taking bids 2 story, 105 x 200 ft., rein.-con., brick and steel sales, service and repair garage, Branch Ave. and Dryden Lane. $100,000. Private plans.

N. Y., Minetto—PLANT—Columbia Mills Inc. taking bids 1 story and basement, 100 x 170 ft., rein.-con. and steel addition. $40,000. Lockwood, Greene & Co., 24 Federal St., Boston, Mass., engrs.

N. J., Newark—FACTORY—F. and W. V. Engelberger & Co., archts., 159 Jelliffe Ave., taking bids general contract 1 story, 30 x 100 ft., brick and steel addition, plain foundation, Jelliffe Ave. $40,000. Private plans.

Kan., Kansas City—PACKING PLANT—Cudahy Packing Co., Kansas City, taking bids 4 story and basement, rein.-con. and brick plant. $100,000. Private plans.

Okla., Alva — POWER PLANT — See "Contracts Awarded."

Contracts Awarded

Me., Portland — CHEMICAL PLANT — Schlotterbeck & Foss, 36 Brown St., 5 story and basement, brick and steel, to M. C. Tuttle Co., Park Sq. Bldg., Boston, Mass. Archts. est. $200,000. Noted Jan. 13.

Mass., Adams—PLANT—Hoosac Valley Lime Co., Howland Ave., W. F. Fisherty, pres., several rein.-con., brick and steel buildings, incl. lime kilns to increase lime output 1,000 bbl. per day, Howland Ave., to Traylor Eng. & Mfg. Co., Allentown, Pa. Archts. est. to exceed $40,000.

Mass., Lynn — BAKERY — Cushman Baking Co., 545 Congress St., Portland, Me., 2 story, 100 x 160 ft., brick, plain foundation, Sanderson St., here, to C. S. Cunningham & Sons Constr. Co., 80 Boylston St., Boston. Archts. est. to exceed $150,000. Noted Apr. 14.

Mass., Woburn—FACTORY—J. J. Riley Co., Inc., 1 story, brick, plain foundation, Salem St. Work will be done by separate contracts. Private plans. $40,000.

R. I., Pawtucket—COAL GAS PLANT—Pawtucket Gas Co., Main St., will build 3 story, 30 x 57 ft., brick and steel addition, at Tidewater Plant, by day labor. $175,000. W. T. Sturtevant, c/o owners, archt.

R. I., Pawtucket — REPAIR SHOP, STORE and GARAGE — Pawtucket Times, C. O. Block, pres., 1 and 2 story, rein.-con. and brick, plain foundation, Montgomery St., to H. M. Soule, 110 Brook St. Archts. est. $50,000. Noted Mar. 3.

Conn., Fairfield — FACTORY and BOILER PLANT—McKesson-Robbins, Inc., c/o Fletcher-Thompson, Inc., archts., 542 Fairfield Ave., Bridgeport, 5 story, 80 x 200 ft., brick and concrete factory, and 1 story, 60 x 90 ft. boiler plant, Grasmere Ave., here, to T. J. Pardy Constr. Co., 1481 Seaview Ave., Bridgeport. Noted Mar. 24.

N. Y., Brooklyn—FACTORY—Keystone Varnsh Co., 61 Otsego St., 5 story, rein.-con., concrete pile foundation, 61 Otsego St., to E. F. Carlson Co., 393 7th Ave., New York City. Archts. est. $150,000.

N. Y., Pittsfield (mail New Berlin)—WORK SHOP—A. W. Brandt, comr. Highways, Albany, general contract work shop, here, to Wright & Kremers, Inc., Niagara Falls, $37,700. Noted Mar. 31.

N. Y., Yonkers — DISTRIBUTING PLANT — R. H. Macy & Co., Bway. and 34th St., New York City, 1 story, 152 x 260 ft., rein.-con., brick and steel rein.-con. foundation, Hawthorne and Clint Aves., St. Mary's and Park Sts., here, to Banner-Mitler Co., 505 5th Ave., New York City. Archts. est. $200,000.

N. J., Hackensack — DISTRIBUTING PLANT — R. H. Macy & Co., Bway. and 34th St., New York City, general contract 1 story, rein.-con., brick and steel, 2nd and Barry Sts., here, to W. H. Whythe Constr. Co., 382 Railroad Ave. Archts. est. $160,000.

N. J., Hackensack—PRESS ROOM and GARAGE—Apr. 29, by C. V. Bogert, archt., 167 Main St., 2 story, 50 x 150 ft., brick and steel, plain foundation, Camden St., for Bergen Evening Record, 293 Main St. $100,000.

N. J., Newark—SCRAP RUBBER FACTORY—A. Lowenstein, 110 Lillie St., general contract 1 story, 100 x 125 ft., brick and steel, plain foundation, Lillie St., to A. Pastore, 237 Bigelow St. Archts. est. $40,000.

Pa., Bellevernon — GLASS PLANT — Amer. Window Glass Co., Farmers Bank Bldg., Pittsburgh, general contract remodeling and constructing brick and steel addition, here, to Bollinger Andrews Constr. Co., Empire Bldg., Pittsburgh. Engrs. est. $300,000.

Md., Baltimore — WAREHOUSE — J. J. Greer & Co., Inc., 207-209 West Pratt St., 1 story, 123 x 264 ft. warehouse, Ridgely and Ostend Sts., to Consolidated Eng. Co., 20 East Franklin St.

Tenn., Memphis—WAREHOUSE—Moline Hooper Co., 3 story, 75 x 170 ft., brick and concrete warehouse for farm implements, along Illinois Central R.R. tracks, to F. J. Ozanne, Empire Bldg. Archts. est. $150,000.

O., Canton—FACTORY—Superior Sheet Steel Co., Canton-Louisville Rd., 50 x 150 ft., steel addition, to Hines Structural Steel Co., Louisville, $50,000.

O., Canton — FACTORY — Union Metal Mfg. Co., 1432 Maple Ave. N. E., 1 story, modern factory, 141,000 sq.ft. floor space, 1422 Maple Ave. N. E., to Hines Structural Steel Co., Canton, $100,000.

O., Cleveland — WAREHOUSE — New York, Chicago & St. Louis R.R. Co., A. C. Harvey, ch. engr. (Nickel Plate Dist.), Columbia Bldg., 80 x 320 ft. steel, etc., East 45th St., to Austin Co., Engineers Bldg., approximately $70,000. Noted Mar. 3.

O., Columbus—REPAIR GARAGE—R. W. Schiff, 108½ North 3rd St., 1 story and basement, 78 x 150 ft., brick, steel and concrete, 3415 North High St., to S. Levin, Linwood and Main Sts. $36,000. Noted Mar. 3.

O., Painesville — FACTORY — Metallic Binding Co., 1 story, 150 x 200 ft., brick and steel factory to Mitzel-Shields Co., R. F. Keith Bldg., Cleveland. Archts. est. $60,000.

Ind., Ft. Wayne—SHOP and GARAGE—P. Doege, 2701 John St., general contract 2 story, 75 x 155 ft., brick and steel shop and garage, to K. Miller, 1105 Wells St. Archts. est. $45,000.

Ind., Greenfield—PLANT—Eli Lilly Co., McCarthy and Delaware Sts., Indianapolis, general contract 1 story and basement, 80 x 120 ft., brick and steel antitoxin building, near here, to A. V. Stackhouse, 2611 Cornell Ave., Indianapolis. Archts. est. $44,000.

Ind., Indianapolis — PLANT — Progress Laundry Co., 416 East Market St., general contract 3 story and basement, 45 x 50 ft., rein.-con. and steel plant, to C. T. Caldwell, 622 Peoples Bank Bldg. Archts. est. $42,000.

Ind., Indianapolis—SHOP—R. J. Cossey, 2229 East New York St., general contract brick and steel machine shop, to N. Lee, 2456 South Delaware St. Archts. est. $40,000.

Ill., Peoria — FACTORY — Peoria Apron & Towel Co., 300 1st St., 18 ft. high, 100 x 150 ft., brick and steel, Hurlburt and Spencer Sts., to W. M. Allen Son & Co., 955 Jefferson Bldg. Archts. est. approximately $40,000.

Ind., Richmond—PLANT—Belden Mfg. Co., general contract brick and steel manufacturing plant, to J. Mueller, Richmond. $205,000.

Ill., Evanston — MACHINE SHOP and POWER PLANT—National Biscuit Co., 85 9th Ave., New York City, general contract 4 story, rein.-con., brick and steel addition, concrete foundation, Keeney St. and Custer Ave., here, to E. L. Archibald Co., 111 West Washington St., Chicago. Archts. est. $125,000.

Ill., Chicago—BAKERY—Boysen Baking Co., 1001 West Chicago Ave., masonry and carpentry contract 2 story, 70 x 124 ft., brick addition, to Krahl Constr. Co., 350 North Clark St. Archts. est. $50,000.

Tex., Houston—GARAGE—Neils Esperson Estate, Esperson Bldg., 4 story and basement, 52 x 100 ft., rein.-con., brick, tile and stone, Milam St., to Amer. Const. Co., 410 Gulf Bldg., $125,000.

Okla., Alva—POWER PLANT—Southwestern Power Co., C. Lamphere, local mgr., will build brick and concrete power plant addition, and 480 hp. engine, generator, etc., by day labor. Archts. est. $49,900.

Okla., Oklahoma City — WAREHOUSE, etc.—Crane Co., 836 South Michigan Ave., Chicago, Ill., 2 story and basement, 84 x 180 ft., and 1 story pipe shop, etc., rein.-con. and brick, plain foundation, here, to J. D. Mann, Cotton Exch. Bldg. Noted Nov. 11.

Buildings—Industrial (Continued)

Calif., Los Angeles—FACTORY—Coco Cola Co., 963 East 4th St., 3 story and basement, 40 x 119 ft., rein.-con. addition, to J. M. Cooper, 301 Rives-Strong Bldg., $50,000.

Calif., Los Angeles—FACTORY—Hawthorne Mfg. Co., 834 Kohler St., 1 story, 244 x 294 ft., timber, 59th St. west of Central Ave., to Industrial Building Co., Pacific Natl. Bank Bldg., $125,000.

Calif., San Francisco—LAUNDRY—New San Francisco Laundry, 2542 Greenwich St., 2 story, 78 x 160 ft., concrete, 5th St. near Harrison St., to W. F. Gunnison, 210 Post St.

Buildings—Educational, Religious

Proposed Work

N. H., Concord—LIBRARY—City, C. H. Sanders, 4 Elm St., Penacook, plans library addition, and altering school. $150,000 or more. Engineer and architect not selected.

R. I., Newport—GYMNASIUM—De La Salle Academy, A. Basilian in charge, having plans prepared by A. J. Murphy, 146 Westminster St., Providence, concrete, brick and steel, Bellevue Ave. $175,000. Noted Mar. 10.

R. I., North Providence (mail Providence)—ORPHANAGE—St. Mary's Orphanage, c/o F. B. Atkinson, supt., takes bids after May 1, 3 story and basement, brick and stone, plain foundation, Fruit Hill Ave. To exceed $150,000. Jackson, Robertson & Adams, Turks Head Bldg., Providence, archts. Noted Jan. 6.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., had plans prepared by W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 86, 5 story and basement, rein.-con., brick and steel, plain foundation, Reservoir Ave. and 195th St. $963,000.

N. J., Blairstown—HIGH SCHOOL—Bd. Educ. having plans prepared by J. J. Vreeland, Jr., 16 West Blackwell St., Dover, 2 story, 100 x 100 ft., brick and steel, plain foundation, here. $175,000.

N. J., New Brunswick—SCHOOL—Bd. Educ., Livingston Ave., having preliminary plans prepared by A. Merchant, 2 story, brick and steel addition, plain foundation, Wyckoff St. $200,000.

Pa., Reading — GYMNASIUM — School Dept., O. Heim, secy., Administration Bldg., having plans prepared by Richter & Eiler, 147 North 5th St., 2 story and basement, 130 x 280 ft., rein.-con., brick and steel, plain foundation.

Ky., Berea—SCIENCE HALL—See "Contracts Awarded."

Ky., Louisville — SCHOOL — Bd. Educ. having plans prepared by J. M. Colley, c/o owner, 3 story and basement, 250 x 400 ft., irregular shaped, 2,000,000 cu.yd. floor space, brick, and timber with fire and curtain walls, Ashland and Bellevue Sts. $500,000.

O., Cleveland—ADMINISTRATION and HIGH SCHOOL—Bd. Educ., F. G. Hogen, dir., East 6th St. and Rockwell Ave., having plans prepared by G. M. Hopkinson, Auditorium Garage Bldg., 3 story and basement, brick, steel and concrete, East 6th St. and Rockwell Ave. $500,000.

O., Cleveland Heights (Warrensville P. O.)—CHURCH, RECTORY and SUNDAY SCHOOL—First Baptist Church of Greater Cleveland, 2060 East 46th St., Cleveland, having plans prepared by Walker & Weeks, 2341 Carnegie Ave., Cleveland, 2 and 3 story, brick, steel and concrete, Fairmount Blvd., here. $750,000.

Ind., Ft. Wayne — SCHOOL — School Trustees, W. C. Rastetter, pres., soon takes bids rein.-con., brick and steel school and administration building. $245,000.

Ind., Madison — HIGH SCHOOL — Bd. Educ., S. J. Bear, pres., having preliminary plans prepared by Henkel & Hanson, Connersville, brick and steel high school. $150,000.

Ind., Marion—GYMNASIUM and FIELD HOUSE—Athletic Assn. soon takes bids 2 story and basement, rein.-con., brick and steel gymnasium and field house, for Bd. Educ., E. E. Day, supt. $150,000. Daggett & Hibben, Continental Bank, Indianapolis, archts.

Ind., Paoli — HIGH SCHOOL — School Trustees having plans prepared by H. E. Boyle & Co., Furniture Bldg., Evansville, 2 story and basement, 144 x 150 ft., rein.-con., brick, steel and stone high school. $150,000.

Mich., Royal Oak (Ind. br. Detroit)—SCHOOL—Bd. Educ. Dist. 9, had plans prepared by H. T. Keyes, 635 Free Press Bldg., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation. $175,000.

Ill., Granite City—HIGH SCHOOL—Community High School of Granite City, c/o Secretary, having preliminary plans prepared 3 story, rein.-con. and brick addition. $150,000.

Kan., Atchinson — MONASTERY — St. Benedict Abbey, c/o A. Callistus, pastor, takes bids about May 18 on foundations, and in July or August, superstructures, 2, 3 and 4 story and basement, 300 x 528 ft., rein.-con., brick and stone monastery buildings. $1,000,000. E. Breilmeier & Sons, 425 East Water St., Milwaukee, Wis., archts. Noted Jan. 20.

Kans., Hays—SCIENCE HALL—Kansas State Teachers College, c/o Bd. Regents, having plans prepared by C. D. Cuthbert, State House, Topeka, 3 story, rein.-con., brick and stone science hall. $150,000 funds appropriated. Noted Sept. 2.

Neb., Nebraska City—HIGH SCHOOL—Election May 3, $150,000 bonds, Junior High School, 3 story and basement, rein.-con. and brick, for Bd. Educ. J. H. Felt & Co., 300 West 47th St., Kansas City, Mo., archts. Noted Apr. 21.

Minn., Mankato—HIGH SCHOOL—Bd. Educ. having plans prepared by G. Pass, Jr., Mankato. Franklin Junior High School, 3 story. $300,000.

Minn., St. Paul—AUDITORIUM—Dept. Educ. having plans prepared by F. X. Tewes, City Hall, rein.-con. and brick 18,000 seating capacity, 4th St. between Franklin and Washington Sts. $1,000,000.

Mo., Kansas City—NURSES HOME—City having sketches made by F. Gunn, 1108 Central Bldg., 5 story, rein.-con., brick and steel, 24th and Cherry Sts. $200,000.

Tex., Ft. Worth—CHURCH—W. C. Hedrick, archt., 1005 1st Natl. Bank, soon takes bids 2 story, brick and stone, 1,250 seating capacity, Camp Bowie Blvd., for Methodist Episcopalian Congregation, E. H. Lightfoot, pastor. $175,000.

Okla., Bethany — COLLEGE — Peniel College having preliminary plans prepared by Sorey & Vahlberg, Braniff Bldg., Oklahoma City, 2 story and basement, 60 x 170 ft., rein.-con. and brick, plain foundation. Grand St. $150,000.

Okla., Pond Creek—HIGH SCHOOL—Bd. Educ. having preliminary plans prepared 2 story and basement, rein.-con. and brick, plain foundation, 2nd St. $175,000. Engineer and architect not selected.

Wash., Seattle—SCHOOLS—School Dist. 1, R. W. Jones secy., had plans prepared 4 additions to grade school and high school. $693,000.

Calif., Los Angeles — COLLEGE — University of Southern California, 3551 University Ave., having plans prepared by J. and D. B. Parkinson, 420 Title Insurance Bldg., 4 story and basement, 120 x 120 ft. students union building, brick, stone, marble and tile, on campus. $250,000.

Calif., Modesto — HIGH SCHOOL and GYMNASIUM — Modesto City School Dist. defeated 250,000 bonds, high school additions, and $80,000 bonds gymnasium at Junior College. Noted Jan. 27.

Calif., Pasadena — ART MUSEUM — Pasadena Art Institute, A. H. Flemming, pres., having plans prepared by C. S. Stein, 56 West 45th St., New York City, 1 story with 140 ft. tower 250 x 350 ft., Carmelita Park. $1,500,000.

Bids Desired

N. H., Berlin—SCHOOL—Bd. Educ., taking bids 2 and 3 story, basement and wing, brick and stone, plain foundation. $150,000. Wells & Hudson, Main St., Hanover, archts. Noted Mar. 24.

Mass., Hopkinton—SCHOOL—Bd. Selectmen taking bids 2 story and basement, 70 x 100 ft., brick and terra cotta, plain foundation, Ash St. $150,000. W. H. Brainard, 89 Franklin St., Boston, archt. Noted Mar. 31.

Mass., Rutland — CHURCH — Rutland Congregational Church, G. H. Miles, chn., taking bids altering and constructing 1 story and basement, brick and stone, plain foundation, Main St. $150,000. O. A. Thayer, 89 Franklin St., Boston, archt. Noted Jan. 6.

Mass., South Braintree (Ind. br. Boston)—CHURCH—St. Francis of Assisi Parish, W. H. Walsh, pastor, taking bids altering and constructing 1 story and basement, brick and stone addition, plain foundation. $150,000. W. B. Colleary, 80 Boylston St., Boston, archt.

Mass., West Roxbury (br. Boston)—CHAPEL—Pride of Jacob, c/o Krokyn, Browe & Rosenstein, archt., 220 Devonshire St., Boston, taking bids 1 story and basement, brick, stone and marble, plain foundation, here. $150,000. Noted Apr. 7.

Conn., Hartford—SCHOOL—Apr. 30, by City, Northwest Dist., H. U. Tuttle, 3 story, 72 x 115 ft., brick, steel and concrete addition, Holcomb St. $250,000. W. D. Johnson Co., 174 Bond St., archt. Noted Apr. 21.

Conn., New Haven — LABORATORY — May 2 by Trustees Yale University, 4 story and basement, 200 x 250 ft., brick, steel and stone laboratory. $800,000. H. C. Pelton, 415 Lexington Ave., New York City, archt. Noted Feb. 10.

Conn., Norwalk—CHURCH—May 5, by T. L. Fowler, archt., 224 East Hanover St., Trenton, N. J., brick and stone, West Ave., here, for St. Paul's Parish, L. B. Howell, pastor. $300,000.

N. Y., Helmuth—NURSES HOME—May 18, by Commissioner Mental Hygiene, Dept. Hygiene, Albany, nurses home at Gowanda State Hospital, here. S. W. Jones,

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Buildings—Educational, Religious (Cont.)

Capitol, Albany, archt.; adv. E. N.-R. Apr. 28. Noted Mar. 31.

N. Y., Ozone Park (mail Jamaica) — SCHOOL—May 4, by W. H. Gompert, supt. School Building, Flatbush Ave. extension and Concord St., Brooklyn, temporary school known as P. S. 100, Lefferts and Suwanee Aves., here, for Bd. Educ., 500 Park Ave., New York City.

N. Y., Rochester—SCHOOL—May 12, by Bd. Educ., 2 story basement, brick and steel, plain foundation, Lexington Ave. and Holmes St. $300,000. J. M. Tracy, 12 South Fitzhugh St., archt.

Pa., North Wales—SCHOOL—May 3, by Bd. Educ., brick and steel, plain foundation. $150,000. I. T. Catharine Franklin Trust Bldg., Phila., Archt.

Pa., Phila.—SCHOOL—May 3, by Bd. Educ., J. D. Cassell, 19th and Chestnut Sts., 3 story and basement, 69 x 92 ft., rein.-con. and brick, plain foundation, 9th and Hutchinson Sts. $150,000. I. T. Catharine, 19th and Chestnut Sts., archt.

Pa., Phila.—SUNDAY SCHOOL—May 3, by S. D. Milner, archt., 4616 Frankfort Ave., steel and stone, plain foundation, Tyson and Glenlock Sts., for Disston Memorial Presbyterian Church.

La., New Orleans—HIGH SCHOOL—May 13, at office A. J. Tete, secy. Orleans Parish School Bd., City Hall Annex, altering and constructing addition to S. J. Peters Boys High School, South Broad, Baudin, South White and Banks Sts.

O., Cleveland — CHURCH — St. Rose of Lima Church, P. J. O'Connell, pastor, 11405 Detroit Ave., taking bids basement for 1 story, 90 x 175 ft., concrete, West 114th St. and Detroit Ave. $250,000. F. S. Fish, 6007 Euclid Ave., archt.

Ind., Indianapolis—SCHOOL—May 3, by Bd. School Comrs., 150 North Meridian St., School 85, Arlington Ave. between Oak and University Aves. $150,000. C. H. Byfield, 923 Peoples Bank Bldg., archt.

Ill., Chicago—SCHOOLS—May 5, by Bd. Educ., 650 South Clark St., J. E. Brynes, bus. mgr., three 3 story, brick, steel, stone, and terra cotta school buildings, one at 90th and Throop Sts., one at 69th and Fairfield Sts., and other at 101st and Prairie Sts. J. C. Christensen, 650 South Clark St., archt. Noted Apr. 21.

Ill., Springfield — CATHEDRAL, etc. — May 7, by J. W. McCarthy, archt., 139 North Clark St., Chicago, 1 story and 133 ft., tower, 87 x 180 ft., Bedford stone cathedral, school and rectory, 6th St., here, for Springfield Diocese of Roman Catholic Church, c/o Chancery Office, 715 East Monroe St., here. Archts. est. $1,000,000. Noted Feb. 10.

Mo., St. Louis—COLLEGE—May 2, by W. B. Ittner, archt., 911 Locust St., 5 story and basement, 75 x 100 ft., rein.-con., brick and stone, Euclid and Parkview Pls., for St. Louis College of Pharmacy 2108 Locust St. $200,000. Noted Mar. 24.

Tex., Edinburg — HIGH SCHOOL — Edinburg Consolidated Industrial School Dist. c/o M. M. McIlhenny, pres., taking bids Junior High School, 2 story 220 x 230 ft. with 100 x 110 ft. court, rein.-con. and brick, plain foundation. $300,000. Giesecke & Harris, Edinburg, archts. Noted July 29, 1926.

Okla., Ardmore — CHURCH — Bway. Baptist Congregation, W. L. Rector, Pastor, 218 C St., taking bids 3 story and basement, 1,200 seating capacity auditorium, rein.-con., brick, steel and stone, C St. and 1st Ave. $175,000. R. W. Hunt, 1407 Southwest Life Bldg., Dallas, Tex., and J. B. White, Ardmore, associated archts.

Ont., Toronto—SCHOOL—May 3, by W. W. Pearse, secy. and treas. Bd. Educ., 155 College St., Western Technical and Commercial School, 3 story and basement, concrete, brick, tile and stone. $500,000. Noted Nov. 4.

Contracts Awarded

Mass., Harwich—SCHOOL—Town, W. N. Eldredge, chn. com., 2 story and basement, brick and stone, plain foundation, to C. C. Temple, 99 Chauncey St., Boston. Archts. est. $175,000. Noted Apr. 7.

Mass., Newton Center (br. Boston) — LIBRARY—City of Newton, c/o A. O. Fulton, chn. com., Hancock Ave., 1 story and basement, irregular shaped, brick and limestone, plain foundation, 1294 Centre St., here, to D. A. Ferguson, 40 Pelham St. Archts. est. $150,000.

Mass., Quincy — CHURCH and PARISH HOUSE — Bethany Congregational Church, 1 and 2 story and basement, 120 x 135 ft., brick, stone and granite, plain foundation, Coddington and Spear Sts., here, to Runnells Constr. Co., Hildreth Bldg., Lowell. Archts. est. $400,000. Noted Mar. 24.

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Mass., South Hadley—HIGH SCHOOL—Town, c/o T. E. Quirk, chn. com., 2 story and basement, brick and stone addition, plain foundation, to D. O'Connell & Sons, 480 Hampden St., Holyoke. Archts. est. $150,000.

Conn., Middletown — LABORATORY — Wesleyan University, 2 story and basement, 55 x 125 ft., rein.-con. and brick, to Lines H. Wales Co., 134 State St., Meriden. Noted Apr. 14.

Tenn., Memphis—CHURCH—Immaculate Church of Conception, Roman Catholic Church, (1st unit), 3 story, rein.-con. and brick, concrete pile foundation, Central Ave. and Belvedere Sts., to J. F. Schingle, 2604 McLemore St., $44,000. Archts. total est. $200,000.

N. Y., Hamilton—DORMITORY—Colgate University, G. B. Cotton, pres., 4 story, rein.-con., brick and steel, concrete foundation, to Northeastern Constr. Co., 101 Park Ave., New York City. Archts. est. $200,000.

N. J., Hillside (mail Elizabeth)—SCHOOL—Bd. Educ., general contract 2 story, brick and steel, plain foundation, Forthhuber Tract, to Nora & Nora Constr. Co., 52 Paterson St., New Brunswick, $119,750. Noted Apr. 7.

N. J., Morristown—NURSES HOME—All Souls Hospital, Mt. Kemble Ave., general contract 3 story, 45 x 105 ft., brick and steel, plain foundation, Mt. Kemble Ave., to Gallagher & Oliver, 165 Washington St. Archts. est. $150,000. Noted Apr. 14.

N. J., Passaic — SCHOOL — Bd. Educ., Hobart Bldg., general contract 3 story school, Bloomfield and Van Houten Aves., to J. J. O'Leary Co., 127 Prospect St., $414,759.

N. J., Plainfield—SCHOOL—Bd. Educ., general contract 1 story, 125 x 200 ft., brick and steel, plain foundation, West 8th St., to G. W. Mercer Constr. Co., 105 High St., Perth Amboy, $284,080; heating, to G. Tobin, 187 North St., $35,775. Noted Mar. 24.

Ky., Berea — SCIENCE HALL — Berea College will build 3 story and basement, 45 x 95 ft., concrete and brick plain foundation, on campus, by day labor. $150,000. Gray & Lawrence, 42 Church St., New Haven, Conn., archts. Noted Apr. 21.

O., Cleveland—SCHOOL—St. Vincent de Paul Roman Catholic Church, M. J. Flanigan, pastor, 13442 Lorain Ave., 2 story and basement, 64 x 114 ft., brick, steel and concrete addition, to W. J. Schirmer Co., 1720 Euclid Ave. Archts. est. $150,000.

O., Lakewood (br. Cleveland) — SCHOOLS—Bd. Educ., G. W. Grill, clk., 1456 Warren Rd., brick, steel and concrete additions to 3 buildings, to W. F. Hendrich Co., 2777 East 53rd St., $155,150. Noted Feb. 24.

O., Parma (br. Cleveland) — HIGH SCHOOL—Bd. Educ., I. D. Siegfried, clk. Junior High School, 3 story and basement, brick, steel and concrete, West 54th St., to G. H. Moehlman, Norwalk. Noted Mar. 31.

Mich., Orion — HIGH SCHOOL — School Dist. 3, 2 story and basement, rein.-con., brick and steel, plain foundation, Lapeer St., to J. M. Patterson, Plymouth. Archts. est. $175,000. Noted Mar. 31.

Wis., La Crosse—HIGH SCHOOL—Bd. Educ., W. Luening, pres., 2 story and basement, 117 x 155 ft., brick, tile, rein.-con. and Bedford stone addition to Logan Junior High School, to T. J. Molzaha, La Crosse, $128,000. Noted May 20.

Ia., Iowa City—NURSES HOME—W. H. Gemmill, secy. State Bd. Educ., Des Moines, 3 story and basement, rein.-con., brick, steel and stone, plain foundation, here, to Tapager Constr. Co., Albert Lea, Minn., for State University of Iowa. $198,693. Noted Jan. 13.

Minn., Duluth—COLLEGE—Villa Santa Scholastica, c/o Mother Agnes, 4 story and basement, rein.-con. and stone addition, concrete foundation, to Lounsberry Constr. Co., 322½ East Superior St. Archts. est. $200,000. Noted Jan. 20.

Minn., Minneapolis—CHURCH—Church of Holy Cross, 1621 University Ave. N. E., general contract rein.-con., brick and stone, 17th Ave. N. E. and University Ave., to E. G. Evansta Co., 2136 California St. Archts. total est. approrimately $150,000. Noted Oct. 28.

Mo., St. Louis—CHURCH—Fifth Church of Christ Scientists, W. H. Clarkson, chn., 3630 South Grand Blvd., superstructure 2 story and basement, 68 x 120 ft., rein.-con., brick and stone, 3630 South Grand Blvd., to Dickie Constr. Co., Syndicate Trust Bldg. Archts. est. $150,000.

Tex., Fort Worth—HIGH SCHOOL—Bd. Educ., E. A. Corbett, chn., W. T. Waggoner Bldg., general contract 3 story, 26,000 sq.ft. floor space, rein.-con., brick and stone addition to North Side High School, to Butcher & Sweeney, 806½ Taylor St., $252,000; plumbing and heating, to Fort Worth Heating & Plumbing Co., 45 Jennings St., $38,490. Noted Nov. 25.

Ore., Portland—SCHOOL—School Dist. 1, 2.5 story, 175 x 183 ft., rein.-con. and brick, 32nd and Holgate Sts., to Hansen-Hammond Co., Pittock Blk., $214,000.

Wash., Longview — SCHOOL—Longview Lumber Co., c/o R. A. Long, 3 story and basement, rein.-con., brick and stone addition, Olympic St., to Bartelson & Ness, 6824 17th Ave., Seattle. Archts. est. $500,000. Noted Dec. 30.

Federal Government Work

Proposed Work

Fla., Key West—Fill—Spec. 5312—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids marl fill at Naval Operating Base, here. Noted Mar. 17.

Bids Desired

Me., Portland—Boiler—May 16, by Treas. Dept., at office Supervising Archt., Wash., D. C., boiler at U. S. Marine Hospital, here.

N. Y., Buffalo—Retaining Wall—May 25, by U. S. Engineer Office, constructing steel sheet pile retaining wall at Black Rock Lock, here; adv. E. N.-R. Apr. 28.

N. Y., Governor Island (br. New York)—Ferry—May 2, by Constructing Quartermaster, constructing and equipping double end steel Diesel propelled ferry vessel, for Governors Island Harbor.

New Jersey — Dredging — May 25, by U. S. Engineer Office, Wilmington, Del., dredging Salem River, here; adv. E. N.-R. Apr. 28.

Wis., Milwaukee—Tug—May 24, by U. S. Engineer Office, 60 ft. steel sidewheel tug; adv. E. N.-R. Apr. 28.

Ark., North Little Rock (Ind. br. Little Rock)—Refrigerating Plant—May 24, by U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., refrigerating and ice making plant in mess and kitchen building at U. S. Veterans' Hospital 78, here.

Wyoming—Road—May 3, by Bureau Pub. Rds., Custom House, Denver, Colo., grading; etc. 4.54 mi. Granite Creek-Shell 1, National Forest Development Rd. Project, Bighorn Co. J. W. Johnson, 301 Custom House, Denver, Colo., engr.

Colorado—Road—May 3, by Bureau Pub. Rds., Custom House, Denver, grading, etc. 4.34 mi. West Creek 2, Natl. Forest Road Project, Douglas and Teller Counties. $67,000. J. W. Johnson, Custom House, Denver, engr.

Washington—Canal—June 3, by Bureau Reclamation, Ellensburg, constructing Kittitas Div. Main Canal, etc., Yakima Project, at Cle, Elum and Easton; adv. E. N.-R. Apr. 28.

Wash., Walla Walla—Telephone Equipment—May 17, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., automatic telephone equipment at U. S. Veteran's Hospital 85, here.

California — Road — May 4, by C. H. Sweetser, distr. engr. U. S. Bureau Pub. Rds., Sheldon Bldg., San Francisco, grading, curbing, bridging roads in Yosemite Natl. Park, Mariposa Co.

Contracts Awarded

N. Y., Albany—Dredging—U. S. Engineer Office, 710 Army Bldg., New York City, dredging in Hudson River about 4 mi. below here to Great Lakes Dredge & Dock Co., 17 Battery Pl., New York City, $477,242. Noted Feb. 10.

N. Y., Sunmount—Buildings, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., buildings and utilities, etc. at U. S. Veterans Hospital 96, here, to N. P. Severin Co., 105 West Monroe St., Chicago, Ill., $226,600. Noted Mar. 3.

Pa., Phila.—Heating Plant—Spec. 5330—Bureau Yards & Docks, Navy Dept., Wash., D. C., heating plant at Marine Barracks, here, to Almirall & Co., Inc., 53 Park Pl., New York City, $79,676. Noted Apr. 14.

Miss., Gulfport — Sand Fill — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., 55,000 cu.yd. sand fill pumped into western grounds of Veterans Hospital 74,

Federal Government Work (Continued)

here, to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $16,000. Noted Mar. 17.

Fla., St. Augustine—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office and Custom House, here, to J. B. Spaulding, St. Augustine, $3,939. Noted Apr. 14.

Ky., Louisville—Trestles, Wickets, etc.—U. S. Engineer Office, P. O. Box 72, trestles, wickets, etc., for Boule Weir, Dam 41, Ohio River, to Louisville Bridge & Iron Co., 11th and Oldham Sts., $86,888; and to Independent Bridge Co., Neville Island, Pittsburgh, Pa., $24,840. Noted Mar. 10.

Ky., Shelbyville — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here, to Dunlap & Co., Inc., Columbus, Ind., $56,-070. Noted Mar. 17.

Ill., Chicago—Mechanical Equipment—Treas. Dept., at office Supervising Archt., Wash., D. C., modernization of mechanical equipment, etc., to C. E. Carson, 601 St. Claire St., $136,880. Noted Mar. 24.

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

785—City of Allegan, Mich., wants preliminary permit power project on Kalamazoo River, in Allegan Co.

786—Idaho Power Co., 7th and Bannock Sts., Boise, Idaho, wants license transmission line on public lands in Power, Blaine, Minidoka and Jerome Counties.

787—M. I. Richel, Red Lodge, Mont., wants license 1,000 ft. diversion flume and power house, on Black Fork of Rock Creek, in Carbon Co.

788—A. Frederickson, Snowflake, Ariz., wants preliminary permit power project in Gila Co. on Slat River, within Tonto Natl. Forest and Fort Apache Indian Reservation.

789—Sierrh and San Francisco Power Co., 58 Sutter St., San Francisco, Calif., wants preliminary permit 60,000 acre ft. reservoir on Middle Fork, Stanislaus River, to regulate stream flow for existing Stanislaus plant of applicant and Melones plant (now under construction), Tuolumne Co.

790—Montana Power Co., 40 East Bway., Butte, Mont., wants license transmission line in Meagher Co. within Jefferson Natl. Forest.

Unclassified

Proposed Work

Park Improvements—Nashville, Tenn.—State Memorial Comn., A. Peay, chn., State Capitol Bldg., plans to expend $45,000, completing Memorial Park Gardens, incl. landscaping, fixtures, fountains, etc.

Phone Cables, etc.—Muskegon, Mich.—Michigan Home Telephone Co., Terrace St., plans laying new phone cables, conduits, and new branch exchange building in Lakeside Dist. $90,000. W. E. Hutchens, Terrace St., engr.

Stadium—Muskegon, Mich.—Bd. Educ., Hackley School Bldg., takes bids about May 10, 6,400 seating capacity concrete and steel stadium. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engr. Noted Apr. 21.

Lighting System — Moline, Ill. — See "Streets and Roads."

Foundations — Atchison, Kan. — See "Buildings—Educational, Religious."

Park Improvements — Carthage, Mo. — Plans election $50,000-$60,000 bonds improving park, incl. swimming pool, pavilion, etc.

Park Improvements, etc.—Fremont, Neb.—Defeated $40,000 bonds, improving parks, etc. Noted Mar. 24.

Light Plant and Distribution System—Stanberry, Mo.—Voted $30,000 bonds, light plant and distribution lines, also $7,000 bonds steam heating system.

Lighting System—Canton, Okla.—Making preliminary plans extending lighting system, additional machinery for power plant, etc. $35,000. Address Mayor.

Airport—Fresno, Calif.—Defeated $350,-000 bonds, airport. Noted Feb. 3.

Lighting System — Huntington Beach, Calif.—Plans ornamental lighting system in various sections. To exceed $25,000.

Fire Equipment and Underground Conduits—Outremont, Que.—City Council soon takes bids fire equipment, $25,000; also lightning and underground conduits, $12,000.

Crib Wharf—Cap de la Madeleine, Que.—Pub. Wks. Comn., Ottawa, plans crib wharf 50 x 50 ft., incl. shed, on St. Maurice River, here. $15,000. B. Grandmont, Three Rivers, engr.

Bids Desired

Heating and Ventilating—Boston, Mass.—Y.M.C.A., 37½ Beacon St., taking bids heating, ventilating, elevators and electrical work in Y.M.C.A. building, Stuart and Clarendon Sts. To exceed $50,000. Shepard & Stearns, 65 Franklin St., archts. Noted Mar 24 under "Buildings—Commercial."

Exit Facilities, etc.—Kings Park, N. Y.—May 11, by Commissioner Mental Hygiene, Dept. Hygiene, Capitol, Albany, exit facilities, electric work, fire stops, etc., at Kings Park State Hospital, here; adv. E. N.-R. Apr. 28.

Fire Alarm System—Long Island City, N. Y.—May 5, by J. J. Dorman, fire comr., Municipal Bldg., New York City, constructing portion underground fire alarm system, concentrating subways in vicinity of Woodhaven Blvd. between Myrtle and Liberty Aves., here.

Signal System—Phila., Pa.—May 6, by Dept. City Transit, 1211 Chestnut St., H. E. Ehlers, dir., automatic block signal and interlocking systems, for Broad St. Subway, Contr. 158.

Coal and Material Handling Plant—Mobile, Ala.—May 19, by State Docks Comn., W. L. Sibert, chn., State Office Bldg., erecting, etc., equipment for coal and material handling plant; adv. E. N.-R. Apr. 28.

Subway, etc.—Chicago, Ill.—May 10, by Bd. South Park Comrs., 57th St. and Cottage Grove Ave., substructure, superstructure and approaches to Inner Dr. Subway at 31st St., and east approach to 31st Street viaduct, at 31st St. and Lake Front. M. E. Connelly, secy.

Wiring, etc.—Cleveland, O.—May 6, by Bd. Educ. Orange Twp., electric wiring, clock and gong system for school. C. W. Bates, 77 12th St., Wheeling, W. Va., engr.

Culverts—Allison, Ia.—See "Bridges."

Fire Boats—Portland, Ore.—May 5, by City Council, City Hall, constructing 3 fire boats. To exceed $25,000. O. Laurgaard, City Hall, engr.

Dock — Sarnia, Ont. — See "Contracts Awarded."

Coach Yard Platforms, Piping, etc. — Toronto, Ont.—May 2, by T. T. Irving, ch. engr. Canadian Natl. Ry., New Union Station, coach yard platforms, piping, etc., also shelving in Commissary Building. $25,000.

Contracts Awarded

Swimming Pool — Brunswick, Me. — Bowdoin College, K. Sills, pres., swimming pool, to H. P. Cummings, 14 Prospect St., Ware, Mass. Noted Mar. 31.

Landscape Work—Newton, Mass.—S. B. Black, 34 Linden St., Arlington, landscape work, Kent Rd., to Sawyer Constr. Co., 16 Arlington St., Boston. Archts. est. $25,000.

Elevator—Beech Grove, Ind.—Cleveland Grain Co., general contract concrete bins, 800,000 bu. capacity, to J. Stewart Inc., 343 South Dearborn St., Chicago, Ill., $120,000.

Culverts—Des Moines, Ia.—See "Bridges."

Culverts—Elkader, Ia.—See "Bridges."

Culverts—Grundy Center, Ia.—Grundy Co., 46 culverts, to Mamminga Constr. Co., Grundy Center, $11,892;; labor for 4 timber bridges, to Welden Bros., Iowa Falls $1,240; and for 1 timber bridge, to Waugh & Tackman, Clarksville, $995. Grand total $14,272. Noted Mar. 17.

Culverts, etc.—Muscatine, Ia.—Muscatine Co., 16 box culverts and culvert repair jobs, to A. Garrett, Muscatine, $5,999; also 1 pony truss bridge, to M. Hurtung, Muscatine, $9,550.

Culverts—Nevada, Ia.—See "Bridges."

Culverts—Vinton, Ia.—See "Bridges."

Culverts, etc. — Waterloo, Ia. — Black Hawk Co., 37 culverts and extensions, 2 I-beam bridges and 1 abutment, to W. A. Burton, Waterloo, $29,289.

Gas Pipe Line—Wichita Falls, Tex.—Wichita Falls State Hospital (State of Texas, owner), construoting 1½ mi. 8 in. gas pipe line from city limits to hospital, to Oldham Bros. Welding & Constr. Co., Wichita Falls, $46,000.

Dock—Sarnia, Ont.—Sarnia Ferry Co., F. Newton, mgr. will build dock extensions, by day labor. $50,000.

Sprinklers — Vancouver, B. C. — False Creek Lumber Co., 953 6th Ave. W., installing 2,000 heads automatic sprinklers in mill, to Globe Automatic Sprinkler Co., 214 Standard Bank Bldg., $32,000.

See proposal advertising on page 146

Materials

Proposed Work

Paving Brick — Muskegon, Mich. — Soon takes bids 130,000 No. 2, 3½ x 4 x 8½ in. paving brick. $5,000. H. J. Lewis, City Hall, engr.

Bids Desired

Pipe—Boston, Mass.—May 16, by City, Supply Dept., H. S. Frost, supt., standard wrought iron pipe in sizes and quantities as required to Dept. Pub. Wks.

Pipe—New York, N. Y.—May 5, by P. J. Dooling, comr. Purchase, Municipal Bldg., c.i. pipe, special valve box castings, valves and double nozzle fire hydrants, to Dept. Water Supply, Gas & Electricity.

Road Oil—Cullom, Ill.—Cullom Twp. in market 6 cars road oil. W. H. Barner, supver.

Generator, Pumps, etc. — Perkinston, Miss. — May 3, by Bd. Trustees Harrison, Stone and Jackson Counties Agricultural High School and Junior College, Troy automatic steam engine direct connected to Ridgeway 20 kw. 125 volt generator, two 4-C Gardner Duplex brass pumps installed, sewage disposal system for 500 persons, 2,800 ft. ¾- to 4-in. galvanized pipe, 3,200 ft. ¾ and 4 in. black pipe, twenty-four 4 in. galvanized tees, twenty-one ¾- to 4-in. unions, etc.

Wood Blocking, etc.—Chicago, Ill.—May 3, by City, Room 406, City Hall, furnishing and delivering sound wood blocking by truck at Pipe Yard "B," 3150 South Sacramento Ave.; and 700 untreated oak piles 45, 50 and 55 ft. lengths. R. W. Wolfe, comr. Pub. Wks.

Road Oil—Geneseo, Ill.—Edford Twp. in market 5 cars road oil. H. Miller, Geneseo, highway comr.

Portland Cement—St. Paul, Minn.—May 3, by A. E. Eggert, city purch. agt., 1,500 bbl. portland cement, 900 cu.yd. gravel, 675 cu.yd. concrete sand, 41,000 lb. reinforcing, 2,300 lin.ft. steel contraction plate for 7 in. concrete paving, for use on St. Laurence St. G. M. Shepard, city engr.

Roofing Material—St. Louis, Mo.—St. Louis Structural Steel Co., 1218 Syndicate Trust Bldg., in market fireproofing material for flat roof, steel purlin spaced about 6 ft. c/c.

Bids Received

Circuit Breakers—Phila., Pa.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., Apr. 12, circuit breakers for subway station, Contr. 155, from General Electric Co., River Rd., Schenectady, N. Y., $30,900.

Contracts Awarded

Battery Material—Boston, Mass.—School House Dept., battery material and other electrical supplies, to Wetmore-Savage Co., 76 Pearl St., Boston, Mass., $13,260. Noted Mar. 24.

Coal Tar Patching, Road Oil, Cement, etc. —Boston Mass.—City, Supply Dept., coal tar patching material to various Departments for ensuing year, to Independent Coal Tar Co., 88 Broad St., at $29.89 per ton; 300,000 gal. 45% road oil, to Trimont Oil Co., 1840 Parkway, Everett, $0.0738; 200 tons asphaltic cement, to Standard Oil Co. of New York, Park Sq. Bldg., $25.33; and emulsified asphalt for cold patching, to Headley Good Roads Co., Franklin Trust Bldg., Phila., Pa., $46.68. Noted Apr. 14.

Road Oil and Tar—Boston, Mass.—Supply Dept., 36,000 gal. nonasphaltic road oil to Park Dept., to Independent Coal Tar Co., 88 Broad St., at $0.0875 per gal.; also hot application tar, to Trimont Oil Co., 1840 Parkway, Everett, $22.93. Noted Mar. 31.

Lead Cable—Hartford, Conn.—Bd. Contr. & Supply, 17,000 ft. 7 conductor wire lead cable for fire alarm purposes, to Hazard Mfg. Co., 533 Canal St., New York City, $2,821. Noted Apr. 7.

Sand—Hartford, Conn.—Bd. Contr. & Supply, City Hall, 700 cu.yd. sand to Street Dept., and 9,300 cu.yd. sand as designated, to Riverside Sand Co., 43 Village St., East Hartford, at $0.90 and $1.10 per cu.yd. respectively, total $9,930. Noted Apr. 7.

Aggregate — Muskegon, Mich. — I. L. Christianson, city clk., City Hall, 7,000 tons fine and 14,000 tons coarse aggregate, to L. D. Smith Stone Co., Sturgeon Bay, Wis., $28,000. Engrs. est. $30,000.

Tar—Cincinnati, O.—Hamilton Co., 300,-000 gal. tar for repairing macadam roads, to Road Repair Dept., to Barrett Co., 517 Carr St., $35,610. Engrs. est. $34,000. Noted Mar. 31.

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UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Road—Washington

Bids were opened by State Highway Department, Olympia, Mar. 29 (lowest three) for constructing State Road No. 12, Palix River Section, Pacific County, from (A) S. H. Newell & Co., 1254 Reed College Pl., Portland, Ore.; (B) A. C. Goerig, 300 Pantages Bldg., Seattle (awarded contract); (C) Willapa Construction Co., Raymond. The unit bids are as follows:

	A	B	C
380 acres clearing	$150.00	$300.00	$300.00
120 acres grubbing	150.00	400.00	300.00
1,060 acres scalping	30.00	30.00	50.00
13,520 cu.yd. excavation, including haul of 400 ft.	.42	.50	.41
110 cu.yd. structure excavation, including haul of 400 ft	1.50	1.00	1.00
72,880 cu.yd. overhaul on above materials, per each 100 ft.	.01	.04	.02
53,410 cu.yd. side borrow in place	.33	.30	.34
30 lin.ft. plain concrete or V.C. pipe, 18-in. diam. in place	3.00	3.00	2.70
126 lin.ft. plain concrete or V.C. pipe, 30-in. diam. in place	6.00	5.00	5.50
TRESTLE			
4,100 m.b.m. timber and plank in place	50.00	45.00	55.00
3,920 lin.ft. furnishing piling at site	.25	.16	.25
56 driving piles in place	18.00	10.00	10.00
Totals	$30,150	$31,498	$31,869

Borings—New York, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., Mar. 25, (lowest three) for land and river borings, Newtown Creek Crossing, Manhattan Avenue and Jackson Avenue from Greenpoint Avenue, Brooklyn, to Crane Street, Queens, agreement "FK" from (A) Standard Drilling Co., 300 Madison Ave., (awarded contract); (B) Philip J. Healy, Inc., 25 Church St.; (C) Osborne Drilling Corp., 122 Greenwich St. The unit bids are as follows:

	A	B	C
2,430 lin.ft. sinking 2½ in. casings on land	$2.69	$3.45	$3.72
195 dry samples on land	.60	1.00	.45
450 lin.ft. drilling 1¼ in. cores on land	2.44	3.45	3.72
160 lin.ft. determining ground water level	.55	2.00	.50
210 lin.ft. sinking 2½ in. casings in Newtown Creek	5.45	5.50	7.00
15 dry samples in Newtown Creek	.75	1.00	1.75
75 lin.ft. drilling 1¼ in. cores in Newtown Creek	5.45	7.00	8.00
Totals	$9,404	$12,146	$12,978

Road—Delaware

Bids were opened by State Highway Department, Dover, March 16 (lowest three), for widening Maryland (Elkton)-State Road, from (A) George & Lynch, Dover (awarded contract); (B) F. W. Lovett, Newark; (C) P. D. Phillips & Bro., Salisbury, Md. The unit bids are as follows:

	A	B	C
5,250 cu.yd. excavation	$0.65	$1.10	$0.80
600 cu.yd. borrow	1.50	1.10	1.00
5,200 cu.yd. 1:2:3 concrete pavement	13.35	13.40	13.92
2,800 lin.ft. expansion jt.	.20	.20	.18
1,500 sq.yd. concrete gutter	2.15	2.20	2.25
1,000 lin.ft. shoulder curb	.20	.25	.20
Totals	$77,718	$80,165	$81,263

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Water Mains—Highland Park, Ill.

Bids were opened by Village, Feb. 25, (lowest four and highest) for West Highland Park Water Extension, from (A) W. J. Newman Co., 19 North Curtis St., (awarded contract); (B) T. J. Prendergast Co., 118 North La Salle St.; (C) Kren & Dato Building & Construction Co., 936 North Michigan Ave.; (D) Merkle Contracting Co., 1318 Hyde Park Blvd., (all these contractors of Chicago); (E) Allied Contractors, Inc., Omaha, Neb. The unit bids are as follows:

	A	B	C	D	E
500 lin.ft. of 20 in. C.I.P. av. depth 6 ft.	$11.00	$11.00	$9.55	$10.00	$10.52
1,000 lin.ft. of 20 in. C.I.P. av. depth 5 ft. 6 in	10.75	8.00	9.00	11.00	9.73
8,750 lin.ft. of 20 in. C.I.P. av. depth 7 ft.	7.50	7.85	8.25	7.50	9.73
2,040 lin.ft. of 18 in. C.I.P. av. depth 5 ft. 6 in	5.55	6.25	5.90	6.50	7.57
1,000 lin.ft. of 14 in. C.I.P. av. depth 5 ft. 6 in	8.60	5.60	6.80	8.00	6.50
9,850 lin.ft. of 14 in. C.I.P. av. depth 5 ft. 6 in	4.25	4.52	4.10	5.25	6.50
9,075 lin.ft. of 12 in. C.I.P. av. depth 5 ft. 6 in	3.40	3.75	3.35	4.50	4.60
1,310 lin.ft. of 10 in. C.I.P. av. depth 5 ft. 6 in	2.80	3.10	2.75	3.50	4.00
2,000 lin.ft. of 8 in. C.I.P. av. depth 5 ft. 6 in	5.85	3.75	4.90	6.00	4.40
17,355 lin.ft. of 8 in. C.I.P. av. depth 5 ft. 6 in	2.45	2.63	2.57	2.50	4.40
780 lin.ft. of 6 in. C.I.P. av. depth 5 ft. 6 in	3.45	2.00	1.75	2.00	3.20
110,000 lb. of fittings	0.08	0.07½	0.09½	0.08	0.06
11—20 in. valves	270.00	314.00	343.00	280.00	300.00
2—20 in. valves with gr.	270.00	345.00	365.00	320.00	350.00
3—18 in. valves	225.00	267.00	300.00	250.00	240.00
1—16 in. valve with gr.	245.00	225.00	250.00	200.00	220.00
12—14 in. valves	130.00	149.00	166.00	140.00	150.00
11—12 in. valves	100.00	100.00	115.00	95.00	95.00
3—10 in. valves	75.00	80.00	95.00	75.00	85.00
22—8 in.	50.00	54.0	62.00	55.00	75.00
61—valve vaults	100.00	80.00	85.00	80.00	150.00
1—valve vault, special	1,250.00	1,465.00	1,040.00	900.00	2,500.00
55—hydrants	160.00	150.00	192.00	150.00	135.00
2,000 cu.yd. of sand	3.00	2.95	3.15	2.50	3.50
5 connections	100.00	50.00	95.00	75.00	200.00
15 concrete piers—6.75 cu.yd.	50.00	30.00	26.00	20.00	50.00
2—concrete bulkheads 11.20 cu.yd.	50.00	25.50	26.00	20.00	45.00
2—concrete bulkheads 10.0 cu.yd.	50.00	28.70	26.00	20.00	45.00
7,000 ft. of oak piles	.80	1.25	1.10	2.00	1.25
Totals	$281,956	$286,137	$287,950	$308,562	$374,557

Correction

On this page last week (April 21 issue) the subway unit prices listed were for constructing Route No. 104, Sect. *No. 3*, instead of for Sect. No. 2 as stated. Correct description of Sect. No. 3 is as follows: (A) Patrick McGovern, Inc., 50 East 42nd St., (awarded contract); (B) Rodgers & Hagerty, Inc., 70 East 45th St.; (C) G. H. Flinn Corp., 461 8th Ave.; (D) Rosoff Subway Construction Co., Inc., 461 8th Ave.; (E) Silas Mason, Inc., 17 West 60th St. Unit prices on No. 2 will be published in a later issue.

UNIT PRICES *continued on Page 276a*

HP

HERCULES POWER

The symbolic contraction "HP", by a great deal more than accident, stands for Hercules Power just as it does for Horse Power.

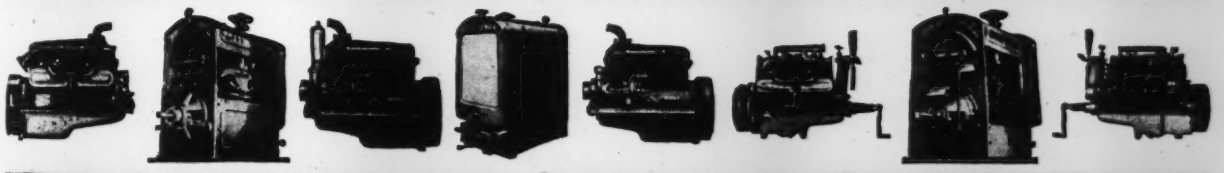
For it was in the development of Horse Power—in other words the largest cubic inch displacement with the smallest external dimensions and least weight—that each of the eight Hercules Engines was designed.

It is in furtherance of this principle of "most Horse Power per pound of engine" that Hercules manufacturing standards are held to their unprecedented rigidity.

"HP" means Hercules Power—Horse Power!

HERCULES MOTORS CORPORATION
CANTON, OHIO, U. S. A.

HERCULES



ENGINES

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Arkansas

Bids were opened by State Highway Commission, Little Rock, Feb. 28, for constructing bridge over St. Francis River near Cody, Lee County, F.A.P. No. 183E, from (A) Vincennes Bridge Co., Vincennes, Ind., (awarded contract); (B) Wisconsin Bridge & Iron Co., North Milwaukee, Wis.; (C) Missouri Valley Bridge & Iron Co., Leavenworth, Kan.; (D) R. L. Gaster, Little Rock; (E) Kansas City Bridge Co., Kansas City, Mo.; (F) Pittsburgh-Des Moines Steel Co., Des Moines, Ia.; (G) General Construction Co., St. Louis, Mo.; (H) Austin Bridge Co., Dallas, Tex. The unit bids are as follows:

	A	B	C	D	E	F	G	H
9,900 cu.yd. earth excavation	$0.40	$0.56	$0.60	$0.30	$0.35	$0.40	$0.30	$0.35
1,644 cu.yd. dry excavation for structures	1.10	5.20	2.00	10.00	5.00	8.00	2.00	5.00
2,848 cu.yd. wet excavation for structures	8.65	9.50	5.00	10.00	12.00	12.00	20.00	41.50
354 cu.yd. gravel surface course	3.10	5.58	5.00	3.00	4.00	1.50	3.00	4.00
514.2 cu.yd. class "S" concrete	21.75	28.65	35.00	30.00	27.50	25.00	25.50	25.50
920.7 cu.yd. class "B" concrete with extra cement	21.00	19.54	40.00	32.00	30.00	30.00	42.00	26.25
1,713.2 cu.yd. class "A" concrete above seal	23.50	20.00	25.00	30.00	25.00	30.00	40.50	29.25
138 cu.yd. class "A" concrete counter weights	30.00	34.32	50.00	25.00	30.00	30.00	35.00	40.00
130,733 lb. reinforcing steel	0.05	0.046	0.06	0.047	0.055	0.06	0.05½	0.05
1,252,495 lb. structural steel in truss bridges	0.0685	.0774	0.0815	0.07	0.085	0.08	0.06¾	0.07½
17,870 lin.ft. untreated timber piling	.095	1.00	0.75	1.00	1.00	1.00	1.03	1.25
130 lin.ft. concrete railing for structures	2.40	8.94	3.00	2.50	3.00	3.00	2.00	2.50
52,500 lb. machinery	0.38	0.297	0.30	0.30	0.27	0.30	0.25	0.33
1 complete gas engine with accessories (lump sum)	2,650.00	1,700.00	2,500.00	1,800.00	2,000.00	1,800.00	1,900.00	2,500.00
Totals	$238,641	$254,128	$271,758	$278,251	$284,096	$291,685	$315,701	$370,298

Sewer—Akron, Ohio

Bids were opened by Bureau of Engineering, Division of Sewerage, Mar. 24 (lowest five), for Cuyahoga River Outfall Sewer, Contract No. 1, from (A) Engineer's Estimate; (B) The Holmes Construction Co., Wooster (awarded contract); (C) Lowensohn Construction Co.; (D) G. S. Mallert-Weidner Co.; (E) Bucanelly Construction Co.; (F) T. E. McShaffrey Construction Co. The unit bids are as follows:

	A	B	C	D	E	F
9,000 lin.ft. 90 x 144 in. brick sewer complete earth section	$48.00	.....	$52.16	.....	$62.00	$45.50
3,940 lin.ft. 90 x 144-in. brick sewer, complete pile section	54.00	.....	58.06	.....	62.00	51.75
1 siphon overflow, complete	8,000.00	.....	8,500.00	.....	10,000.00	8,000.00
1 diversion chamber, complete	1,000.00	.....	1,100.00	.....	2,000.00	1,000.00
26 manholes on 90 x 144-in. sewer	50.00	.....	50.00	.....	50.00	50.00
175 expansion joints, complete	80.00	.....	80.00	.....	100.00	80.00
9,000 lin.ft. 90 x 144-in. concrete sewer complete alt. "A" earth sect.	48.00	$43.00	45.00	$42.70	46.80	52.00
3,940 lin.ft. 90 x 144-in. concrete sewer complete alt. "A" pile sect.	54.00	47.00	50.90	50.14	46.80	58.50
1 siphon overflow, complete	8,000.00	7,000.00	8,500.00	10,500.00	10,000.00	8,000.00
1 diversion chamber, complete	1,000.00	1,000.00	1,100.00	1,000.00	2,000.00	1,000.00
26 manholes on 90 x 144-in. sewer	50.00	40.00	50.00	70.00	50.00	50.00
175 expansion joints, complete	80.00	120.00	80.00	150.00	100.00	80.00
9,000 lin.ft. 90 x 144-in. concrete sewer complete alt. "B" earth sect.	48.00	43.00	45.53	43.87	52.00	51.00
3,940 lin.ft. 90 x 144-in. concrete sewer complete alt. "B" pile sect.	54.00	47.00	51.43	51.61	52.00	57.50
1 siphon overflow, complete	8,000.00	7,000.00	8,500.00	10,500.00	10,000.00	8,000.00
1 diversion chamber, complete	1,000.00	1,000.00	1,100.00	1,000.00	2,000.00	1,000.00
26 manholes on 90 x 144-in. sewer	50.00	40.00	50.00	70.00	50.00	50.00
175 expansion joints, complete	80.00	120.00	80.00	150.00	100.00	80.00
175 lin.ft. 12-in. vitrified pipe sewer, complete	2.60	2.60	2.50	2.25	3.00	2.60
70 lin.ft. 36-in. brick sewer, complete	8.40	8.40	9.00	15.00	10.00	5.00
80 lin.ft. 12-in. cast iron pipe sewer, complete	5.00	5.00	5.00	4.00	5.00	4.00
3 manholes (std.) on pipe or brick sewer	100.00	100.00	95.00	90.00	70.00	100.00
1 street inlets, comp. wingwall	50.00	50.00	50.00	25.00	50.00	50.00
1 8-in. stubs or slants	1.00	1.00	1.00	1.00	1.00	1.00
1 10-in. stubs or slants	1.00	1.00	1.00	1.50	1.00	1.00
1 12-in. stubs or slants	2.00	2.00	2.00	2.00	1.00	2.00
1 18-in. stubs or slants	3.00	3.00	3.00	3.00	2.00	2.00
1 48-in. stubs or slants	20.00	20.00	20.00	125.00	20.00	20.00
60 lin.ft. 24-in. vitrified pipe inlet connections	4.50	4.50	4.00	6.00	4.00	4.00
2,000 lin.ft. 8-in. underdrain complete	.60	1.50	.60	.50	1.00	.20
2,000 cu.yd. gravel refill	3.00	3.00	3.00	3.00	2.00	3.00
30,000 lin.ft. piles	2.50	3.40	2.50	3.20	2.50	2.75
100 m.b.m. sheeting left in place	40.00	40.00	1.00	25.00	60.00	35.00
200 sq.yd. rip rap	2.00	3.00	2.00	3.00	2.50	2.00
100 cu.yd. special excavation	2.00	2.00	4.00	4.00	3.60	3.50
5,000 cu.yd. embankment	3.00	1.50	3.00	.50	2.00	3.00
25 tons class "D" C. I. pipe, 6 in. and larger	120.00	150.00	100.00	80.00	90.00	80.00
50 cu.yd. concrete masonry, class 1	18.00	30.00	18.00	20.00	20.00	20.00
1,000 cu.yd. concrete masonry, class 3	10.00	7.00	10.00	10.00	16.00	9.00
5,000 lb. reinforcing steel	.05	.06	.05	.05	.08	.05
10 cu.yd. brick masonry	25.00	25.00	25.00	20.00	30.00	25.00
Cost of brick sewer	$787,350	$740,410	$837,165	.....	$952,980	$760,086
Cost of concrete sewer alt. "A"	787,350	$740,410	744,515	$746,422	756,292	845,181
Cost of concrete sewer alt. "B"	787,350	740,410	751,373	762,744	823,580	832,241
Cost of engineering inspection, etc.	12,650	12,650	12,650	12,650	12,650	12,650
Total cost of brick sewer	$800,000	.....	$849,815	.....	$965,630	$772,736
Total cost of concrete sewer alt. "A"	800,000	$753,060	757,165	$769,072	768,942	857,831
Total cost of concrete sewer alt. "B"	800,000	753,060	764,023	775,394	836,230	844,891

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